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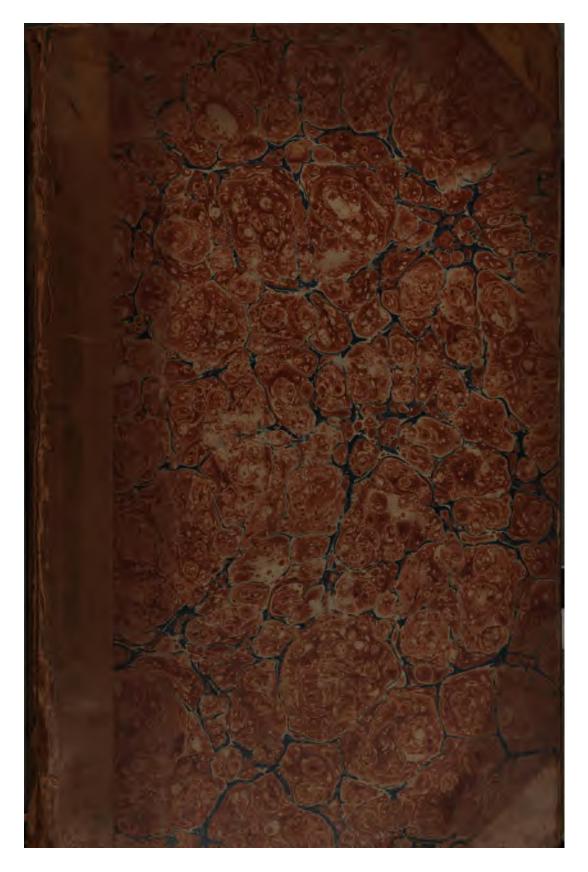
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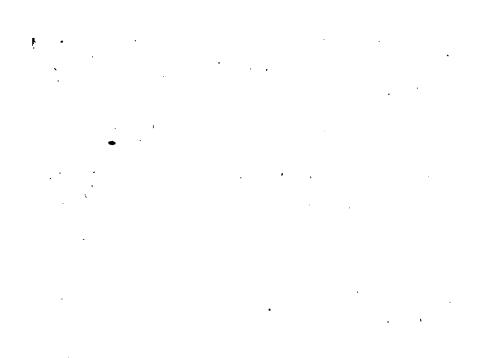
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PLANTÆ RARIORES

IN

HIBERNIA

INVENTÆ;

OR

HABITATS

OF SOME

PLANTS,

RATHER SCARCE AND VALUABLE,

FOUND IN

IRELAND;

WITH

CONCISE REMARKS

ON THE

. PROPERTIES AND USES OF MANY OF THEM.

BY WALTER WADE, M.D. M.L.S.

LICENTIATE OF THE KING AND QUEEN'S COLLEGE OF PHYSICIANS, ETC.

PROFESSOR AND LECTURER ON BOTANY
TO THE RIGHT HONOURABLE AND HONOURABLE THE DUBLIN SOCIETY.

Ne miremini, quæío, lubenter me loqui de itineribus intra Patriam capeffendis: fuum enim cuique pulchrum est; et sua quemque trahit voluptas. Ipse meis pedibus circumivi et transcendi pruinosas Lapponia Alpes; et Norlandia aspera juga superavi, clivosos etiam colles et inaccessos ejus saltus emensus, &c.

Linnai Oratio de Peregrinat. intra Patriam; Amoen. Acad. V. 2. 385.



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'10, BACK-LANE.

. 1804.



PERHAPS it may be necessary to premise, that I have adopted the universally received, and well understood word amongst botanists at this day, HABITAT, as in the title page; meaning, the native places of growth, where each species of plant noticed is to be found in Ireland.

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TO THE

RIGHT HONOURABLE AND HONOURABLE

THE

DUBLIN SOCIETY,

TRI

ENCOURAGERS

03

AGRICULTURE, THE ARTS, AND SCIENCES,

THIS CATALOGUE

01

RARE AND VALUABLE PLANTS,

FOUND IN IRELAND,

IS MOST HUMBLY INSCRIBED,

33

THEIR MOST DEVOTED,

VERY OBLIGED AND

HUMBLE SERVANT,

WALTER WADE.

DUBLIN, JUNE 23, 1804.

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PREFACE.

As some circumstances have occurred, which may possibly prevent the publication of a FLORA HIBERNICA as soon as could be wished for, a work for some years back amongst the first of my considerations, and which I have from time to time announced for publication, as soon as genuine and valuable materials could be collected for that purpose, conceiving, as I then did, and do still, that no work of a similar nature ought to make its appearance, or be considered genuine and valuable, unless the author has it in his power to answer for the HABITATS, or native places of growth, of the different objects noticed; or in some unforeseen

unforeseen instances, which should be very few, to depend on the kind and liberal communications of professed botanists, or botanical amateurs, and not even then, unless the communication is accompanied with a living specimen of the plant.

Such precautions, of fo much import as I conceive, and which, I trust, will receive the approbation and support of the genuine and true naturalist, must retard, for some time on my part, the publication of a FLORA HI. BERNICA.

I am aware, that there are some genuine and valuable materials for such a FLORA, in the hands of a gentleman in the northern part of this kingdom, a person every way qualified, from industry, information, and acuteness, for such an undertaking, and it is much to be lamented he does not gratify the botanical world with

with the result of his researches. Not having the honour of his acquaintance, or pleasure of his considence, I shall not presume to mention his mame; but I should hope, when his leisure parasits, that he will follow my example, by publishing the babitats of such valuable and scarce plants as he has met with growing wild in Ireland—from such a source, the communication must be highly interesting.

Dublin Society has enabled me in some degree to explore some of the most distant parts of Ireland, in search of their vegetable products, (an account of one excursion I have lately published, in the Transactions of the Dublin Society for 1801,*) a suggestion long since proposed by one of its most enlightened, respected, and valuable members, conceiving, as He then did,

^{*} PLANTÆ RARIORES IN CUNNAMARA INVENTÆ.

that a Flora of Ireland, properly and faithfully executed, on such a principle as that of enabling a person properly qualified, under the auspices of the Society, to examine the different provinces in search of their vegetable productions, would be highly interesting, advantageous, and valuable.

But as fuch a Flora cannot immediately make its appearance, for reasons already stated, I consider myself called upon, in the interim, to the before the Society, and the public, the fe-fult of those labours in general, which the liberality of the Society has heretofore in a great measure encouraged me to undertake.

The intention of the present trising publication is to record the native places of growth of some scarce plants found in Ireland: some, likewise, of common occurrence, are noticed, merely because the different British Floras have considered

confidered them as rather rare, and others on account of some valuable properties they post fels. I have given only the systematic, and English names, and, in a very few instances, the drift; all synonyms and descriptions I have omitted, as they will be found more at large in the different Floras, and to avoid enlarging the form of publication unnecessarily. Where any valuable property is attributed to a plant. I have, as before observed, carefully marked it. Whenever I have been obliged to depend on kind communications, fuch I have acknowledged with respectful gratitude; they will appear to be but very few, because the living plant has not, in general, been fent with the communication. This, I trust and hope, will be a fufficient apology for many omiffions.

As to *cryptogamicks*, the investigation of which has now become fo interesting and fashionable,

fashionable, though attended with much difficulty, I have touched upon them but slightly, except the order Alga, one genus of which order (Lichen) I consider as meriting every attention, as some of the species afford some beautiful and permanent dyes. Another genus of the same order (Fucus, or sea-wrack) I conceive to be highly valuable in the economy of nature, and it may be made subservient to many useful purposes. I have, therefore, amongst others more rare, introduced all the common and profitable species, which occur on our shores.

In the moss tribe, I must consider my having found the Buxbaumia aphylla, as a great acquisition and honour to an Irish Flora, a figure of which I have given.

Such plants as have appeared in a former publication of mine,* I have omitted; except in a few instances, where I considered them as rather scarce, and worthy of other habitats being mentioned of them; such as Rubia pereigrina, or bastard madder, which perhaps may answer all the purposes of the more costly madder, or Rubia tinctorum.

I have ever considered that, however trifling a work may be, clear and copious indexes must be very satisfactory; and, convinced of their use, I presume to add an English and Latin one to this little performance.

The abbreviations, I have made use of, are for the purpose of referring to the different divisions in the Dublin Society's botanical garden at Glasnevin, where the several plants noticed

CATALOGUS SYSTEMATICUS PLANTARUM INDIGE-NARUM IN COMITATU DUBLINENSI INVENTARUM.

noticed may all in time be found, and which abbreviations will be explained in the next page.

Upon the whole, then, I should hope, that this Catalogue, for it cannot strictly be called any thing else, the first attempt of the kind in this kingdom on a general plan, will be the means of inducing others to follow my example, so that a FLORA OF IRELAND may appear, which will do honour to the NATION.

DUBLIN, 1804.

ABBREVIATIONS EXPLAINED.

- A. Arboretum, or tree division.
- F. Fruticetum, or shrubbery.
- H. Herbarium, or herbaceous ground.
- P. Pecudarium, or cattle ground.
- H. T. Hortus tinctorius, or dyer's garden.
- FŒ. Fœnarium, or hay garden.
- E. Escarium, or esculent garden.
- H. H. Hortus Hibernicus, or Irish garden.
- H. M. Hortus medicus, or medicinal garden.
- G. V. Gramina vera, or true graffes.
- A. P. Aquarium palustre, bog and marsh division.
- A. L. F. Aquarium lacustre, et suviatile, aquatic division.
- C. Cryptogamia, or cryptogamic division.

ERRATA.

Page 2, line 10, for Lafitanica, read Lufitanica.

17, line 3, for low, read late.

18, line 12, for livid, read liver.

25, line 15, for Dione a, read Dionea.

26, line 22, for IUNCUS, read JUNCUS.

26, for filmormis, read filmormis.

28, line 6, for path, read post.

32, line 23, for SAGI, read SAXI.

35, line 8, for SELLARIA, read STELLARIA.

____ 144, line 17, for thisp lant, read this plant.

PLANTÆ RARIORES, &c.

No. I.

HIPPU'RIS vulga'ris, mare's tail. A. F.

THE Hippuris is not confidered in England, as a very common plant; I therefore notice it, because it is rather so in Ireland on the banks of slow streams, and pools of water, flowering about the middle of summer. A transverse section of the stalk forms a beautiful microscopic object, and the whole plant is considered as a weak astringent.

II.

VERONI'CA monta'na, mountain speedwell. H.—H. H.—P.

Not very rare in many shady woods; the wood at Luttrel's-town, county Dublin, affords it in abundance, and about Ballynahinch, Cunnemara, it is common in rather exposed situations. I cannot agree with some very respectable English authority, that a chalky soil seems best adapted

to it; for in Ireland it is to be met with in a state of great luxuriance in various soils, and, as to a chalky soil, we are unacquainted with any such, that I know of, in Ireland. In its general habit, it somewhat resembles our common Veronica Chamædyrs, or wild germander, the dried leaves of which form so excellent a substitute for tea.

III.

PINGUI'CULA Lasitan'ica, pale butterwort. A. P.

Rather common in some bogs, and marshy bottoms with P. vulgaris, as at Woodstock, county Kilkenny, William Tighe, Esq. Mountmelick-bog—bog of Allen—Ballynahinch, Cunnemara, and many other parts of the county Galway—in the counties of Down, Tyrone, and Derry, it is to be met with frequently, flowering late in the summer.

IV.

UTRICULA'RIA vulga'ris, greater booded milfoil. A. P.

In turf holes near Ballynahinch, Cunnemara bog of Allen—in marshy ditches at Howth, county Dublin, slowering about August. The hollow hollow bags, attached to the leaves, contain air, and a transparent watry fluid, which last, when greatly magnified, appears to contain a quantity of extremely minute folid particles.

UTRICULA'RIA mi'nor, leffer-hooded milfoil. A. P.

I look upon this as more common than the former, growing in fimilar fituations, and flowering at the same time of the year.

Between Ballinasloe and Shannon-bridge, in the turf-holes on the road fide it occurs in abundance, and about two miles from Ballynahinch. Cunnemara, road to Custrower bay, it covers a fmall bog-hole. It is likewise to be met with in' the bog of Allen, intermixed with Utricularia vulgaris. Old bog-holes, foot of Sleigh Donard, county Down, John White.

CIRGA'A alpi'na, mountain enchanter's nightshade. H. H. H.

On the public road, Drimcong, between Galway and Oughterard, among the stones, and in various mountainous spots in Cunnemara, slowering in August. Besides its smaller size, it may be readily distinguished from C. Lufatunica, or common enchanter's nightshade, by its heart-shaped leaves.

VII.

SCHOE'NUS maris'cus, prickly bog-rush.
A. P.

The small loughs and moors, between Bally-nahinch and Oughterard, afford it in abundance. It serves for thatching, instead of straw, as it grows very high, sometimes sive or six seet, and the lower leaves three seet long.

VIII.

SCHOE'NUS al'bus, white headed bog-rush.
A. P.

At the foot of Lettery mountain, Ballynahinch, Cunnemara, on a turfy marsh, flowering in August.

IX.

SCHOE'NUS ru'sus, brown bog-rush.

Found in the marine marshes, near Custrower bay, Ballynahinch, Cunnemara, and likewise in the county of Antrim, but I forgot to notice its habitat. Doctor Smith observes, that

this Schanus has often been described for the S. ferrugineus, which is supposed to have never been found in Britain.

X.

I'RIS fœ'tidiffima, stinking Iris, or gladwyn, roast beef plant. H.-H. H.-P.-H.T.

Irish, Blericum.

This perennial, which flowers in June, is easily distinguished from the common yellow Iris or slagger, by the colour of the flower, which is of a heavy blue, and the peculiar smell of the leaves when bruised, resembling, in some degree, roasted beef; hence one of the English names.

On Ireland's Eye, Howth, and at Fossaro, to the Southward of Bray, county Wicklow. In Ennis church-yard, county Clare.

Swine bitten by a mad dog have escaped the disease, by taking the fresh roots mixed with their food, whilst others bitten by the same dog died raving mad. They are used to dye black.

XI.

SCIR'PUS flu'itans, floating club-rush. A. F.

Found in stagnant pools, near Ture bridge, Killarney, county Kerry. In the marshy grounds at Howth, and Cardiff's bridge, county Dublin, and in many parts of the county Galway.

XII.

SCIR'PUS acicula'ris, least club-rush.

A. P.

In marshy and heathy spots near Ballynahinch, Cunnemara, but not in any quantity, slowering in August. Withering, following Haller and Retzius, considers this species of Scirpus as a Cyperus.

XIII.

PHAL'ARIS arena'ria, fea Canary grafi. H.—H. H.—G. V.

On the fandy sea shore at Howth, county Dublin. This delicate canary grass is an annual, and slowers in July.

XIV.

LO'LIUM temulen'tum, annual darnel grass. H.—G. V.—H. H.

This species of darnel is sometimes common in corn fields. I notice it, because it is well known in most counties in Ireland, by the name of *Rileb* and *Rivery*, for its intoxicating quality, whether taken in bread or drink; swine have

been known to be seized with a temporary blindness and drunkenness, when it was mixed with their food. "Made into bread, with a small proportion of wheat, and often eaten, produced vomiting, purging, violent cholics, and death."—Monthly Review, vol. 67. p. 559.

XV.

FESTU'CA calama'ria, reed-like fescue grass. H.—G. V.—H. H.

Whether a Festuca, or Poa, it is not my business at present to determine; but as an excellent figure of this grass appears in the 14th vol. p. 1005, of English Botany, I shall adopt this name given to it by Doctor Smith. In the Species Plantarum, by Willdenow, vol. 1. p. 389, it will be met with under the name of Poa trinervata. In addition to its being found in a wood, near Newtown-Barry, by the Rev. Mr. Butt, I may venture to affert, that this new grass is not uncommon in Ireland. The woods at the Dargle, county Wicklow, and those near Derry, and Ross-Trevor, afford it in abundance; a perennial, and flowers in June.

FESTU'CA

FESTU'CA vivi'para, viviparous fescue-grass. H.—H. H.—G. V.

Rather common on the summits of all our high mountains—on Mangerton and Purple mountains, Killarney. Mr. Gough, in Withering, observes, that this viviparous fescue, brought from the highest hill in Westmoreland, and planted in his garden, continued viviparous for three or four years, and he would seem to hint that it is uniformly so. Common on the mountains of Mourne, John White.

XVII.

Al'RA flexuo'sa, waved mountain bair-grass. H.—H. H.—G. V.

In fandy heathy fituations, at Ireland's Eye, Howth, flowering in July, a perennial.

XVIII.

PO'A dis'tans, reflexed meadow-grafs. H.—H. H.—G. V.

In the fands at Howth, and Northwall, county Dublin, abundantly; a perennial, and flowers about August.

PO'A

XIX.

PO'A nemora'lis, wood meadow-graft. G. V.—H. H.—H.

In shady situations, between Luttrel's-town and Lucan, county Dublin; a perennial, and slowers in July. In a wood on the side of Knock-cree mountain, county Down, John White.

XX.

PA'NICUM fanguina'le, cock's-foot panick-grass. G. V.—H. H.—H.

A few specimens of this very scarce grass were found on the fand-hills of Dough, county Clare.

XXI.

ROTBO'LLIA incurva'ta, fea bard-graft. G. V.—H. H.—H.

This annual, which perfects its flowers about the latter end of August, is to be met with at Howth, near the sea shore, Sutton side, but not in any quantity.

ILYX

PHLE'UM alpi'num, alpine cat's-tail grass. G. V.—H. H.—H.

Near the fummit of Lettery mountain, Ballynahinch, Cummemara, a few specimens, flowering in August.

AGROSTIS

XXIII

AGRO'STIS min'ima, small bent grass. G. V.—H. H.—H.

This elegant little grass, found in the same situation with the former, and slowering at the same time.

XXIV.

BRO'MUS racemo's functh brome grass.

G. V.—H. H.—H.

I have always taken this Bromus to be the B. mollis, until convinced to the contrary by the excellent figure and description given of it in Eng. Bot. vol. 15, p. 1079. It is by no means uncommon on arable land, in the county of Dublin; the different grounds about the botanic garden, Glasnevin, before they were cultivated for botanical purposes, particularly that which borders the river, produced many specimens of it.

XXV.

PLANTA'GO Loeflingii, Wilden. Sp. Pl. 1.
649. H.—H. H.

Wildenow, I prefume to think, very properly considers this plantain as a distinct species, the sariety *Loeflingiana*, of Hudson's Plantago maritima.

Found

Found in feveral places, Cunnemara, county Galway, on the banks and margin of old ditches.

XXVI.

EX'ACUM filifor'me, least Gentianella. H.—H. H.

A very rare and curious little plant, about three inches high, was found in Durfey island, county Cork, on a high dry bank opposite the main land, not far from the church in ruins, J. Blashford Esq.—an annual, and slowers in August. Doctor Smith was the first who removed this plant from the genus Gentiana.

XXVII.

RUP'PIA mari'tima, sea Ruppia, tassel pend weed. H.—H. H.

With some difficulty this plant, which somewhat resembles Potamogeton marinum, was detected in the salt water marshes at the North wall.

It is not afcertained, whether it be an annual, or perennial; as it was not got in flower, I cannot determine the flowering time with us.

HYXX.

CENTUN'CULUS min'imus, fmall centunculus. A. P.

This plant, which is hardly an inch high, was found in the moist turfy sands near Ballynahinch, Cannemara; slowering in August.

XXIX.

ASPE'RULA cynan'chica, squinancy wort. H.—H. H.

Found in rocky places, chiefly on mossly tusts in Glanquin, and several other parts of the barony of Inchiquin. On the sandy banks, along the sea shore at Aughris, Cunnemara; slowering in August and September.

XXX.

GA'LIUM borea'le, crossleaved ladies' bed-straw. H.—H. H.—H. T.

ty Galway, about the various loughs in rocky shady spots; the different islands on Lough Corib sapply it in abundance; slowering in September.

ber. The roots have the quality of dyeing red, like the common G. verum, or yellow ladies' bed-ftraw.

XXXI

RU'BlA peregrina, wild madder. H.—H. T.

This wild Madder, the roots of which possess the property of dyeing red like the true Madder, or Rubia tinctorum, is to be found in abundance growing among the bushes at Ross, Mugrus, and Ennisfallon, near Killarney. It is likewise to be met with, but not in quantity, on the Hills of Howth, and Dalkey, county Dublin; slowering in August.

XXXII.

ALCHEMIL'LA alpi'na, alpine ladies'-mantle. H.-H. H.

The rocky high mountain of Mam Turc, Cunnemara, and Joyce country, affords this elegant alpine plant in abundance. On the rocks at Cong, county Mayo, nothing can be more common; flowering in September.

SAGI-

XXXIII.

SAGI'NA cerastoi'des, mouse-ear pearl wort. H.—H. H.

The present plant would almost tempt me into giving an opinion as to the class, and order in which it should be placed, as well as of its generic and specific character, but as a simple account of the babitats of certain rare plants, which are to be met with in Ireland, is merely my object in the present publication, I shall carefully avoid hazarding any opinion. I have retained the first name given to this plant in the III. vol. of English Botany, 166. In the Flora Britannica of the same Author, p. 498, it is removed to the class and order Decandria Pentagynia, under the name of Cerastium tetrandrum, or tetrandrous mouse-ear chickweed, a name which the late much-to-be lamented Mr. Curtis had given it, accompanied with a most characteristic figure, in the II. volume, pl. 429, of that most valuable and excellent performance, the Flora Londinensis.

On the fandy shore between Clontarf and Howth, County Dublin, common, and in many other places in Ireland. An annual, and in full slower in July.

XXXIV.

LITHOSPER'MUM arven'se, corn gromwell, bastard alkanet. H.—H. H.—H. T.

This annual, which flowers in May, is to be met with in abundance in the cultivated fields at the foot of the Three-rock mountain, county Wicklow. The bark of the root tinges wax, and oil of a beautiful red.

XXXV.

LYSIMA'CHIA vulga'ris, yellow loose-strife. H.—H. H.—A. P.

I don't take this elegant species of loose-strife, (whose stems frequently rise to nearly the height of three feet) to be so very common. The bog of Ballyphahane, near Cork, furnishes it but in small quantities. Upon the east bank of a lough adjoining the lands of Drumkevan, near Ennis, county Clare, slowering in July. Bilberry island, Lough Corib, and near the bridge of Ballinasloe, in the marshes and waters, slowering in September.

XXXVI.

PULMONA'RIA marit'ima, fea lang-wort. H.—H. H.

So late as the first week in October, sound it in shower, and but very sparingly, on the shore mear Hampton bank, about a short mile from Balbriggan; and at Lough Sheeny, Tummontown, or Land of Lane, (as they are generally called,) between the two lime kilns on the shore, within about a mile or rather more of Skerries, county Dublin. Abundantly along the gravelly shore side between Green Castle and the Light House, county Down. John White.

I can have no doubt of its being perennial. It is confidered as one of the most beautiful indigenous plants we have. Mr. Atkinson observes, that the corolla before it expands is pink, immediately after changing to a fine blue.

XXXVII.

CAMPA'NULA hedera'cea, ivy leaved bell-flower. A. P.

Found in a low swampy field, near the old millfream at the back of the old house of Barley-field, ley-field, near Ballybritton, and about five miles from Bandon, County Cork—a perennial, and flowers so low as August, Doctor Vine, Limerick.

XXXVIII.

DATU'RA stramo'nium, thorn-apple. H.—H. H.

A very poisonous annual, which slowers in August, abundantly about the river Lions, King's County. It would now appear to be naturalized in Europe, although a native of America.

XXXIX.

SOLA'NUM Dulcama'ra, var. marit. Ra. Syn. 263, sea woody night-shade. F.—H. H.

On the beach at Renvi, Cunnemara, common, flowering in September; though Hudson says, in littoribus maritimis passim, I have reason to think it is a scarce plant.

XL.

RHA'MNUS cathar'ticus, purging buck-thorn. F.

In the hedges and woods, and but sparingly about Killarney. The saffron-coloured juice of the

the unripe berries of buck-thorn is used for staining maps or paper, and which berries are the French berries of the druggists shops. The juice of the ripe berries with alum, is the sap green used by painters. The bark of the buck-thorn is said to afford a beautiful yellow dye.

XLI.

PRIMULA vulga'ris, var. 2, Withering. H.—H. H.

This elegant variety of the common primrose with lilac-coloured flowers, and which I suppose is the variety with blossoms of a red lived colour, noticed by Withering, was found by John White, at the foot of Saddle and Trumpet mountain, county Louth.

It is worthy of remark, that the leaves of the common primrose answer extremely well for feeding silkworms. Trans. of Soc. of Arts, II. p. 157.

XLII.

AT'ROPA Belladon'na, devale, or deadly nightfhade. H.—H. H.—H. M.

One of the most powerful narcotick poisons we have indigenous. Found at Stradbally, by the brook side where an old monastery stood, abundantly.

abundantly. The juice of the ripe berries is faid to stain paper of a beautiful and durable purpless. A perennial, and flowers in July.

XLIII.

LONICE'RA Pericly'menum, var. foliis quercinis, oak-leaved common honey-suckle. F.

This variety of the common honey-suckle, with oak-shaped leaves, is to be found along the ditches in the fields near Fassaro, County Wick-low.

XLIV.

GENTIA'NA ver'na, spring gentian. H.—H. H.

A very elegant and very scarce perennial, which covers the sterile mountains and a few marshy situations near Castle-taylor, County Galway, in the month of May. It is observed, that this species of Gentiana and the G. bavarica are nearly allied.

XLV.

SI'UM latifo'lium, broad leaved water-parsnip. P.—H.—H. H.—A. P.

The roots are supposed to be of an acrid poifonous quality. The bog of Curragha, county c 2 Dublin, Dublin, affords it in abundance, and it is likewise to be met with at Howth in marshy fituations, but sparingly. Near Tuam, and abundant in the boggy ditches on the road side between Milough and Ballinasloe. A perennial, and slowers in August. The roots are highly noxious to cattle.

XLVI.

SI'UM re'pens, creeping water-parsnip. H.—H. H.—A. P.

Found this with the former; a perennial, and flowers in July. It is much smaller than Sium modifiorum. Marshy spots along the river side, Kirkeel, county Down, John White.

XLVII.

PHELLAN'DRIUM aquati'cum, water hemlock. H.-H. H.-A. P.

Irish, Fealla bog.

The marfby disches about Tham, county Galway, and the waters near the bridge of Ballinafloe, and Newtown-bridge near Trim, county
Meath; and all along the river Boyne abound
with it. It was formerly supposed to be a fatal
poison to horses, occasioning them to become
paralytic; but this paralytic affection is now afcertained to be brought about by an infect, which
generally inhabits within the stems; the usual remedy is pigs dung.

CENAN'THE

XLVIII

WAN'THE peucedani'folia, fulphur mert water dropwort. H.—H. H.—A. P.

In marshy situations—common near the coast between Balbriggen and Skerries, and on Lambay island. A perennial.

XLIX.

CORIAN'DRUM fati'vum, common coriander. H.—H. H.—H. M.

This plant, when bruised, is very setid; an annual, and to be found on the shore between Clontars and Howth; and on the ground to the right from the upper end of Townsend-street to the draw-bridge going to Ringsend; slowering in July.

Coriander-seeds have been considered as sufpicious, if not deleterious; but the late Doctor Withering has known fix drams of them taken at once without any remarkable effect.

L,

CAR'UM Ca'rui, common caraway, H.—H. H. H. M.

Found near Clonkeagh; in a field near Chapelized; on a bank near the brick-fields; beyond Ringfend;

Ringfend; and at the north end of Lucan bridge, county Dublin. A biennial, and flowers in July.

LI

T B

PIMPI'NELLA mag'na, great burnet 'faxifrage. H.—H. H.

In the hedges about Fryar's walk, Cork, this perennial is to be met with abundantly, flowering early in July. About the high road, Rosstrevor, county Clare, Dangen beyond Galway, and at Cong, county Mayo, in profusion. The root is very acrid, burning the mouth like pepper, and affords a blue oil, according to Withering.

LII.

PIMP'INELLA dioi'ca, dwarf burnet saxifrage, reck parsley. H.—H. H.

The pasture fields near the church of Athboy, county Meath, furnish it in great quantities; this plant has been sound only in two places in Britain, on the limestone rocks below Bristol, and near Uphill, Somersetshire. A very remarkable circumstance of this umbelliserous plant is, that it bears male flowers on one root, and semale

on another, and hence the trivial name dioica; A perennial, and flowers in May.

LIII.

CORRIGIO'LA littora'lis, fand strapwort. H.—H. H.

This very rare plant, not to be found in the Flora of Hudson, though he was the first discoverer of it in England, is to be met with on the sandy beach, the Sutton side of Howth, county Dublin; an annual, flowering in August. Doctor Withering observes, that in Portugal it is not limited to the sea side, but grows in hedge-banks, and ploughed sields at a distance from the sea.

LIV.

SAMBU'CUS E'bulus, dwarf elder, danewort. F.

The whole plant is very purgative, and posfesses a very heavy disagreeable smell. No species of cattle will eat it; moles will not approach the spot where it is laid. It is however a very serviceable diuretic; the berries give a violet colour. The Silesians are said to scatter the green leaves where their pigs lie, in order to prevent some of the diseases to which they are liable; certain it is, that the green leaves drive away mice mice from granaries. On the iffand of Lambay, facing Rush, county Dublin, it occurs in great profusion.

LV.

Li'NUM angustifo'lium, narrow leaved pale flax. H.—H. H.

On Knockmaroon-hill, road to Lucan, county Dublin, flowering in August. Steep banks between Clontarf and Howth, John White.

LVI.

LI'NUM Radi'ola, least rupture-wort. H.—H. H.

In boggy fituations, along the fides of the rivers about Kirkeel, and on the lands of Murlagh, below Newcastle, county Down, John White.

Doctor Smith in his Eng. Bot. p. 13. 893, adopts the old name, Radiola millegrana.

LVII.

DRO'SERA Ang'lica, great fun-dew. A. P.

In the boggy marshes, near Ballynahinch, Cunnemara, with the two common species of Drosera, flowering late in August. Very similar to the common

Though the whole plant, of this, and the common species is acrid, and corrodes the skin—yet some ladies know how to mix the juice with milk, so as to form a safe cosmetic to remove freekles and sunburn. Mr. Whately of London has observed, that the leaves of all the species of sun-dew have a similar moving power to the leaves of the wonderful Dionaa muscipula, or Venus's Fly-trap, a native of the bogs of Carolina, a very correct sigure of which is given in Darwin's beautiful and eccentric poem, The Loves of the Plants, p. 16, Nat. Miscell. vol. 2. t. 40.

The surface of the leaves of Diona a muscipula are irritable in the highest degree, for when an insect alights on a leaf, it is caught as effectually as a mouse in a mouse-trap.

LVIII.

SCIL'LA ver'na, vernal fquill. H.—H. H.

Abundantly on the rocks, and dry mountainous pasture grounds, near the Giant's causeway, county Antrim, slowering early in May. On the dry pasture ground to the west of the light-house, Howth, and on Ireland's eye, county Dublin.

IUN-

LIX.

1UN CUS uligino's fus, little bulbous rush.

fquarro's fus, moss rush, goose-corn.

acu'tus, great sharp rush.

bulbo's fus, round fruited rush.

H.—H. H.

All to be found at Howth, or along the shore between Clontarf and Howth; particularly the latter in great quantity.

LX.

IUN'CUS campestris, var. 8. of Hudson. H.—H. H.

On marshy boggy ground, Mangerton mountain, Killarney, common; slowering in August.

LXI.

IUN'CUS tri'fidus, three-leaved rush.

A. P.

In the marshy grounds at the foot of Mangerton mountain, Killarney; and on many of the boggy mountains, Cunnemara.

LXII.

IUN'CUS fli'formis, least-rush.

н.—н. н.

On Lettery mountain, Cunnamara. It is the most delicate rush that can be conceived.

IUN-

LXIII.

IUN'CUS triglu'mis, three-flowered rush. H.—H. H.—A. P.

Common with the former, and about the rills, and marshy spots on the Dublin mountains; slow-ering in August.

LXIV.

RU'MEX marit'imus, golden dock. H.—H. H.

In the marshes within the reach of the sea at Howth; slowering in August. I don't think it a very common plant in inland situations, therefore I notice it. Perennial.

LXV.

RU'MEX aquati'cus, great water dock.
A. P.—H.—H. H.

This very useful, and powerful vegetable astringent, is to be met with abundantly in the marshes, and by the sides of the Clady water to the west, not far from Portglanoon, county Antrim; slowering in August. In the waters, near the bridge of Ballinasloe, with Lysimachia vulgaris, and Phelandrium aquaticum. Near Clonee, county Waterford. The root, pulverized, is perhaps the safest and best dentifrice we have.

ALIS'MA

LXVI.

ALIS'MA na'tans, floating water plantain. A. F.

In drains, near an old mill-dam, not far from Balruddery, between the Man of War and Balbriggan public path road, this scarce and curious water plantain is to be met with. Not having seen it in slower, I cannot determine the period of its flowering in this fituation.

LXVII.

ERI'CA Daboe'cia, Irish heath.

To the botanist, who may travel in search of plants, through the romantie district of Cunnemara, county Galway, the immense quantity of this beautiful and truly indigenous heath will fill his mind with astonishment, being nearly as abundant as the most common heath we have, flowering for some months—so late as the middle of September, I parted with it in full flower!

The history of this heath appears to me not to be well understood, and the charm which Ray has attributed to it, however ludicrous, as noticed in Eng. Bot. Vol. I. 35, I could not trace in

any shape whatfoever in Cunnemara. In another place I shall endeavour to give a true history of Erica Daboecia, as I am collecting materials for that purpose. Certain it is, that on the celebrated Lough Dearg, county Donegal, there is a very large island called St. Daboec's island, and on which a St. Daboec founded a priory at a very early date, I believe about the year 490. Whether the Erica Daboecia is to be met with on this island, remains still to be ascertained.

LXVIII.

VACCI'NIUM vitis idee'a, red whortle-berry, crow-berry. F.

The rocky mountains of Burrin, county Clare, are covered with this very delicate ever-green, where it is called ceapa bonne, Keora Borne, flowering in May, and perfecting its fruit in July. It is likewife to be met with on the edges of Upper Lough Bray, near Powerscourt, county Wicklow. Clifts of Scallirea rocks W. of Boncom mountain, and on Carius rocks, Slievenamhady, or the dog's mountain, county Down, John White.

LXIX.

VACCI'NIUM oxycoc'cos, cran-berry. F.

To be met with in many of the turfy bogs—bog of Allen, common. The Swedes use the berries

ries to boil filver plate to its proper whiteness, Eng. Bet. Vol. V. 319.

LXX.

AR'BUTUS U'nedo, common Arbutus, or strawberry tree. F.

This aboriginal beautiful ever-green of Greece is now unequivocally ascertained to be indigenous in that part of the county Kerry, called Killarney; it decorates the fascinating lakes of this enchanting spot, hanging from the crevices of the seemingly barren limestone rocks in the greatest state of luxuriance and beauty, with hardly any earth about its roots. I am told that it is to be met with at Glengariss, and in all the mountainous situations to the west of Bantry bay, county Cork.

LXXI.

AR'BUTUS Uva ur'fi, red trailing Arbutus.

It spreads to a vast degree on the limestone rocks on the Burren mountains, county Galway, where it is called *Burren myrtle*. Very common on the mountains of Cunnemara, and the different islands on the coast, particularly Bussin—no vestige

. . . ,

of flower in September. It has been much esteemed in nephritic complaints, and particularly serviceable in tanning leather, being highly astringent.

LXXII.

ANDRO'MEDA polifo'lia, marsh Andromeda.

F.

This pretty shrub is to be met with in many bogs—the bog of Allen furnishes it in abundance, slowering in July.

LXXIII.

BU'TOMUS umbella'tus, flowering rush. A. F.L.

This highly ornamental aquatic decorates the margins of the ditches and marshes in several places about the Shannon. In a broad ditch on the road leading to Carbally-bridge, Limerick, Doctor Vize.

In the marshes about the river Fergus, particularly between Ennis and Clonrode. This stately aquatic is so hardy as to bear the cold of Lapland.

LXXIV.

MONO'TROPA hypop'ithys, yellow bird's-neft.

H .- H. H.

Growing at the foot of old pine trees, at the Marquis of Drogheda's, Moore Abbey, county Kildare, flowering in July. It fmells like bean bloffoms.

LXXV.

SAPONA'RIA officina'lis, common foap-wort. H.—H. H.

Abundantly in the copies, and on the brink of the river about Ball's-bridge, and all along the river Dodder, county Dublin.

It is probable that it was planted some years back in this situation, as there have been, and still are, bleach-greens and manufactories for printing linen and cotton, along the banks of the river Dodder; and the known property, which foapment possesses of raising a lather like soap when bruised and agitated with water, and so frequently used for cleaning clothes, may be the chief cause of its appearing so abundantly in this spot.

LXXVI.

SAXI'FRAGA stella'ris, hairy faxifrage. H.—H. H.

On the margins of rills, to the north of Mangerton mountain, Killarney, pretty common, flowering in August.—I may observe, that it is to be met with in the greatest quantity near the Devil's punch-bowl, the summit of the mountain.—Shady clifts in Sleigh no Gloch, and many more of the mountains of Mourne. John White.

LXXVII.

SAXI'FRAGA umbro'sa, London pride, none so pretty. H.—H. H.

This alpine beauty covers almost every spot about the lake of Killarney; and what appeared to me very singular in August 1796, when I visited this place, was, that on Mangerton mountain the slower appeared to have just expanded itself, whilst on the opposite mountain Turc, (a road only dividing them) where it grows in great abundance, the seed was perfectly formed, and appeared to have been in that state for some time.

It has only lately been found growing wild in England, but of which circumstance I have some doubts.

doubts.* Very common throughout Cunnemara, county Galway.

LXXVIII.

SAXI'FRAGA hypnoi'des, mossy faxifrage, or ladies cushion. H.—H. H.

This faxifrage clothes the rocks about the Giant's causway, county of Antrim, flowering in May; likewise the hill of Knocknenny, county Fermanagh.—Knockmai mountain, near Tuam.

LXXIX.

SAXIFRAGA oppositifo'lia, purple famifrage. H.—H. H.

At the summit of Bulben mountain, Ennis Owen, Mr. Browne; who very kindly gave me a specimen, from that place, of this very rare and singular species of faxisfrage, being the only one with purple flowers, of British growth.

LXXX.

SILE'NE nu'tans, Nottingham catch-fly. H.—H. H.

Found it but sparingly on the old walls, thickly covered with lime very near Island-bridge, and by the way side near St. Margrett's, county Dublin. Flowering early in June.

SILE'NE

^{*} See English Botany, vol. 10. 663.

LXXXI.

SILE'NE An'glica, English catchfly. H.—H. H.

This species of Silene, by no means common, was found in fields along the shore side, about Kerkeel, county Down, John White.

LXXXII.

SELLA'RIA glau'ca, glaucous marsh stitchwort. H.—A. P.—H. H.

In Curragha bog, county Dublin; flowering in July, with Stellaria graminea. Sides of rivulets, Renvi, Cunnemara. Tinure bog, county Louth, John White.

Mr. Browne says that the stems and leaves appear under a lens to be sprinkled with numerous minute white dots, and that its glaucous colour is owing to this circumstance.

LXXXIII.

SE'DUM Teleph'ium, Orpine, or live long. H.—H. H.

Covers the walls of an old fort, called Cahiremond, near Kilfenora, county Clare; flowering in August. A decoction of the leaves is faid to be a very ferviceable, and forcible diuretic.

LXXXIV.

SE'DUM dasyphyl'lum, thick leaved stone-crop. H.—H. H.

On old walls flowering copiously in June, near Blarney castle, county Cork.

LXXXV.

EUPHOR'BIA Portlan'dica, Portland spurge. H.—H. H.

Found on the shore at Killiney-bay.—Between Clontarf and the warren house, and the Sutton side of Howth; likewise on Ireland's-eye, slowering late in August. It is observed, that at the base of the slower are several flat, slender, skinny woolly substances, cloven at the end.

LXXXVI.

EUPHOR'BIA Hiber'nica, Irish spurge. H.—H. H.

It grows in immense quantities on the public road between Cork and Killarney, and all about Killarney; the seed perfectly formed in August. Not known by the name of *Makinboy*, in the neighbourhood of Cork, or Killarney. I shall shortly give a further account of this Irish spurge, with a sigure of it; which latter circumstance appears to me to be very much wanting, no good or correct sigure, that I know of, having as yet made its appearance, in the state in which it is to be met with in Ireland.

LXXXVII.

PRU'NUS insiti'tia, Bullace tree. A.

Found on Bilberry island, Lough Corib. The bark of the roots and branches is considerably styptic.

LXXXVIII.

CRATÆ'GUS A'ria, white beam tree.

Α.

In the hedges to the west side of Howth; slowering in June. Many places in Cunnemara; and about Killarney. From the fruit of the beam tree an ardent spirit may be distilled, and Mr. Gough says, that the wood of this tree affords an excellent charcoal for making gun-powder.

SOR'BUS

LXXXIX.

SOR'BUS aucupa'ria, mountain ash.

A.

This very pleafing tree is to be met with pretty commonly about Killarney in the woods, and some of the mountains. The berries, which ripen about September, afford a jelly not unpleasant, which is prepared from them in the Highlands of Scotland with sugar, according to Doctor Smith—the berries likewise, dried and reduced to powder, make wholesome bread, and an ardent spirit may be distilled from them, which is faid to have a fine slavour.

/ XC.

SOR'BUS domes'tica, true service tree.

Α.

This rare tree grows by the way fide in a copfe between Maryborough and Mountmelick; and also at river Lyons.

XCI.

RO'SA villo'sa, apple rose. F.

It surprised me somewhat to meet with the garden rose in sull flower in July at Ireland's eye,

Howth; at the same time I can have no doubt of its being perfectly in a wild state.

RO'SA.

XCII.

RO'SA lut'ea, yellow rose. F.

I set this down, with some doubts of its being indigenous, although I met with it in slower in August, near Ballyhill, Carricksfergus, far removed from any garden.

XCIII.

RU'BUS cæ'sius, dew-berry bush. F.

In the county Galway, not unfrequently, on the borders of fields. Knockmai-mountain, near Tuam, John White.

XCIV.

RU'BUS idæ'us, rasp-berry. F.

Very common in Ireland, particularly in the counties of Cork, and Kerry; and abundantly at Glann Cree, and many other places about Powerf-court, county Wicklow.

The fresh leaves are said to be very much liked by kids.

POTEN-

XCV.

POTENTIL'LA frutico'sa, shrubby cinquefoil. P.—H. H.—F.

This shrubby cinquesoil is to be met with abundantly in the barony of Burren, the S. E. side, where it joins the barony of Inchiquin. Among the rocks, on the romantic banks of Lough Corib, near Sir John O'Flaherty's Lemonsield, Oughterard, Cunnemara.

XCVI.

RU'BUS faxat'ilis, stone bramble. F.—P.

Most mountainous situations in Ireland afford this bramble—between the rocks, Ross island, Killarney; and in all the limestone cragg, county Clare, it is abundant. On Kilgobbin mountain, to the west of Kilgobbin, county Dublin, it is to be met with but sparingly; slowering about July. Among the stones on the sides of the mountains, county Galway—Bilberry island, Lough Corib.—The commons of Killinboy, barony of Burren, afford it in great profusion.

XCVII.

DRY'AS octopet'ala, mountain Dryas, or avens. H.—H. H.

This very beautiful, and scarce alpine plant, covers the face of the lime-stone rocks in many places

places on the Burren mountains, county Clare, where it is called wild betony. At Polophouca near Churchhill, county Fermanagh, between Enniskillen and Ballyshannon, on the rocks. Bindon Blood, Esq. a member of the Dublin Society, informs me, that it is known in Burren, by the Irish name of Freaghuagour, Feesoguealiegha, or Leighheen.

XCVIII.

PAPA'VER Cam'bricum, yellow Poppy. H.—H. H.

This scarce perennial species of poppy was found in abundance in the deep vallies, along the mountains above Rosstrevor, county Down, by John White, one of the affistants to the head gardener at the botanical garden, Glasnevin, whom I have noticed before.

XCIX.

ANEMO'NE Apenni'na, blue mountain Anemone. H.—H. H.

Though this elegant species of Anemone has been for a length of time observed in a perfectly wild state, growing in shady spots about the botanical garden Glasnevin, slowering in March, and long before the ground was converted into a botanical garden, yet I cannot take upon me to say, that

that it should be considered as truly indigenous—indeed I have strong doubts that it is, strictly speaking, a native either of England or Ireland.

 \mathbf{C}

THALIC'TRUM alpi'num, alpine meadow rue.

Near the fummit of Lettery-mountain, Bally-nahinch, Cunnemara, in the clefts of the rocks, and on the margins of the rills, at the S. E. part of the mountain; not in flower in September.

CI.

THALIC'TRUM mi'nus, lesser meadow rue. H.—H. H.

By no means a common plant in Ireland; found it but sparingly on Ireland's eye, Howth—beyond the sheds of Clontarf, on the sides of the ditch going to the Warren-house, before the old situation of the Raheny mills. Rosswood, near Killarney.—In a meadow near Mount Melick.

CII.

RANUN'CULUS parviflo'rus, fmall flowered crow-foot. H.—H. H.

This humble annual crow-foot grows on the east fide of the Green-hills.—On the ditch-fide beyond

beyond Milltown, about half a mile, the road to Church Town, on the right hand fide, county Dublin.—Along the river fide at Bray.—I have feen it so early in flower as April.

CIII.

HELLEB'ORUS vir'idis, green hellebore. H.—H. H.—H. M.

We may consider this species of hellebore as amongst the very scarce plants, and which was found rather sparingly, on rocky and copfy pasture ground, at Drummartin near Dundrum, county Dublin, slowering in April. The root is very acrid, purgative, and possesses highly active principles.

CIV.

SCUTELLA'RIA galericula'ta, common skull-cap. H.—A. P.—H. H.

Common in the rivulets in the county Galway, Galway bay, Bilberry island, Lough corib among the stones on the shore, and Renvi shore, Cunnamara. In the marshes at Howth, county Dublin, slowering in September.

CV.

SCUTELLA'RIA mi'nor, lefs skull-cap. H.—A. P.—H. H.

Found with the former in Cunnamara, but much more common, and flowering at the fame time.

TEU'CRIUM

CVI.

TEU'CRIUM Scor'dium, water germander. H.—A. P.—H. H.—H. M.

In a marshy place, near the river bridge, east of Castle Lyons, not in quantity, and slowering late in August. The powdered leaves have been found to be serviceable in worm complaints.

CVII.

TEU'CRIUM Chamæ'drys, common germander.

H.—H. H.—H. M.

On the borders of the fandy fallow fields at the Green-hills, on the road leading to Tallaght county Dublin.*

One of the ingredients in the celebrated gout powder, fold in London.

CVIII.

MEN'THA Pule'gium, pennyroyal. H.—H. H.—H. M.

It is mentioned as growing on a stony soil—the church-yard of Ennis furnishes it in tolerable quantity, slowering in August. In the marshy fens about the barony of Islands and Bunratty. In Earl Kenmare's park, near Killarney. Children have been much benefited, by taking the juice

of

of pennyroyal mixed with fugar, or honey, in the hooping cough.

CIX.

MEN'THA hirfu'ta, Eng. Bot. v. 7. 447. H.—A. P.—H. H.

Rather common in marshes, sides of rivers, and wet places, slowering in August.

CX.

MEN'THA hirfu'ta. Fl. Brit. Smith. H.—A. P.—H. H.

This, the *Mentha aquatica minor* of Sole, pretty common in watery fituations.

CXI.

MEN'THA hirfu'ta, var. 2. Withering. H.—A. P.—H. H.

This finall round-headed mint, first noticed by Ray, Syn. 233. t. 10. f. 1, I have very frequently met with on the sides of rivulets.

CXII.

MEN'THA hirfu'ta, var. & Fl. Brit. Smith. H.—A. P.—H. H.

Abundantly in the marshes, and sides of the running streams in the Glynns, Earl Kenmare's park, near Killarney.

When

When I first found this mint, I considered it a new species, but having sent a specimen of it to Doctor Smith, he assures me it is the variety of Mentha birsuta now noticed.

CXIII.

MEN'THA arven's, var. 3. Fl. Brit. Smith. H.—A. P.—H. H.

The Mentha pracox of Sole, in the marshes at Coghreen, near Killarney, flowering in August.

Along the way side between Dundalk and Jonesborough, county Louth, John White.

CXIV.

BETO'NICA officina'lis, wood betony. H.—H. H.—H. M.

Very common in the woods at Mucruss, Killarney, flowering in August. Near Abbot's-town, county Dublin. In the wood by the river side at Corronanagh, county Clare. In the woods of Shane's castle, county Antrim. The root, in a small dose, is said to have an emetic quality, and the dried leaves powdered are a good sternutatory.

CXV.

MARRU'BIUM vulga're, white horehound. Irish, Drafunt, or Orafunt.

H.-H. H.-H. M.

Common on the waste ground, Murra of Wicklow, slowering about August. The extract of the the plant is highly valued as a medicine for coughs and asthmas, and I believe deservedly so. The Negro Cæsar's remedy for vegetable poisons is said to contain a large proportion of white horehound.

CXVI.

THY'MUS Serpyl'lum, var. . Fl. Britann. Smith.

F.

This very beautiful, and most shrubby variety of mother of thyme, is to be found decorating the rocks of Ross, Killarney, along with the Rubus saxatilis, or stone bramble, slowering in August.

CXVII.

THY'MUS Serpyl'lum, var. 9. Withering.

H.-F.-H. H.

This small, hairy, creeping, variety of mother of thyme, with little woolly heads, noticed so long since as the days of Ray, as having been found in Ireland, though the particular habitat is not mentioned,* was found by John White on Saddle and Trumpet mountain, county Louth, together with a variety, which had variegated leaves.

LATHRÆA,

Synoplis, 231.

CXVIII.

LATHRÆ'A fquama'ria, greater tooth-wort. H.—H. H.

Found in flower early in May, iffuing from the decayed leaves of hazel trees, and to the root of which species of tree it seemed to be attached, in a very shady part of the wood of St. Catharine's, county Dublin.

CXIX.

LIMOSEL'LA aquat'ica, mudwort.

A. P.

Frequently occurring where the water has stood during the winter, county Galway—near Ballynahinch, Cunnamara.

CXX.

OROBAN'CHE ma'jor, greater broom-rape, H.—H. H.

This supposed parasitical plant is to be met with between Luttrel's-town and Lucan, near Woodtown; also between Dunleary and Bullock amongst the rocks, and, as it would appear, adhering to surze; slowering in August. Dr. Smith says it has a smell like cloves, and a very astringent taste.

BART'SIA

CXXI.

BART'SIA visco'sa, viscous Bartsia.

H.-A. P.-H. H.

We may enumerate this species of Bartsia among the very rare plants.-Gortdonoughmore bog, Cloghroe, near Richardson's cabin, about six miles from Cork, on the public road to Killarney, affords it in tolerable quantity, flowering late in July.

CXXII.

LEPI'DIUM rudera'le, narrow leaved pepperwort. H.—H. H.

On the North wall, county Dublin, but not in any quantity, flowering in September. Doctor Withering fays, it smells like a fox.

CXXIII.

TURRI'TIS hirfu'ta, rough tower-mustard.

H.-H. H.

This plant by no means common, was found. about Finto, on the rocks, flowering in July—and on some very old walls near the town of Slane.—Knockmai mountain, Castle Hacket, near Tuam.—On walls, Ballymascanlon, county Louth, John White.

CXXIV.

CARDAMI'NE bellidifo'lia, daisy leaved lady'ssmock. H.—H. H.

This was found on the rocks, with the former about Finto, county Clare.

CXXV.

SISYM'BRIUM terres'tre, annual water-rocket.

A. P.—H.—H. H.

On the margins of Curraghha bog, and in flagnant pools about Greenoug, county of Dublin; flowering in June. In the marshy bogs near Tuam.

CXXVI.

MY'AGRUM fati'vum, common gold of pleasure.

H.—H. H.

On the borders of Lough Corib, near Lemon field, Oughterard, county Galway, in flower in August, and truly in a wild state. It is supposed in England, not to be indigenous, but imported, and sowed with slax from foreign countries. In Germany it is much cultivated, for the purpose of obtaining an expressed oil from the seeds, which is used

in medicine, and for culinary, and economical purposes.

To establish a true generic character for this plant, has excited the ingenuity of some very celebrated botanists.—Gmelin, and Withering following him, place it under a new genus Manchia, and Doctor Smith refers it to the genus Alyssum.

CXXVII.

CHEIRAN'THUS finua'tus, fea ftock. H.—H. H.

This fine scarce plant was found at high water mark about the sand hills of Dough, county Clare, but sparingly; flowering the latter end of August.

CXXVIII.

EROD'IUM marit'imum, fea geranium. H.—H. H.

The Geranium maritimum of Hudson, Withering, &c.—On the sandy sea shore at Killeny bay, and the S. E. side of Howth, slowering early in August.—On the sandy shore at Aghris Cunnamara, Jeff. Cunnis's, Esq.

CXXIX.

GERA'NIUM Pyrena'icum, mountain crane's bill. H.—H. H.

Nothing can be more common than this Geranium, and I notice it only, because some

E 2 particular

particular habitats are annexed to it in the British Floras, as if it were a scarce plant in England. The variety with white flowers is frequently to be met with.

CXXX.

GERA'NIUM lu'cidum, shining crane's bill. H.-H. H.

On argillaceous rubbish, in a shady situation, to the west of Ross island, Killarney, abundantly. On the rocks at Ballycarrol, near Slane, and at the Naul, very near the Common on the rocks at Cong, bridge. . county Mayo, flowering fo late as September. The whole plant, as remarked by Withering, frequently assumes a purplish red colour like the G. Robertianum.

CXXXI.

ALTHAE'A officina'lis, mar/h mallow. H.-H. H.-H. M.

In prodigious plenty, in all the falt marshes about the river Shannon, and Fergus. the road to Cardiff's-bridge, near Cabragh, county Dublin, flowering very late. In many falt marshes, county Cork, particularly in Cable island, where it was noticed long since by Smith In his Civil and Natural History of the county Cork

Cork. The roots, which are perennial, abound with mucilage, and are much used in such cases as require emollients.

CXXXIL

LAVATE'RA arbo'rea, sea tree mallow.

H.-H. H.

On Ireland's eye, opposite Howth; where I have measured a plant five feet high. Abundantly on Galway bay. A remarkable circumstance attends the filaments of this plant, that they are woolly at the base.

CXXXIII.

MAL'VA moscha'ta, musk mallord.

H.-H. H.

Very much resembles the M. Alcea, which is not a native, The borders of the fields along the mail coach road, between Carlow, Kilkenny, and Clonmel, are decorated with the flowers of the musk mallow, during the month of July. The musky perfume, which it diffuses during the warm months, is, as I have experienced, hardly perceiveable in cold, and wet weather. On the public road between Moat and Athlone. Bees are very fond of the flowers of this mallow.

FUMA'RIA

CXXXIV.

FUMA'RIA capreola'ta, red climbing fumitory. H.—H. H.

This fumitory, which has been too frequently mistaken for the common officinal species, is pretty common in Ireland, particularly in the county of Dublin, flowering very nearly the whole year. It is very singular in this species of sumitory, that the leaves perform the office of tendrils or claspers, that is, they turn round whatever objects they touch.

CXXXV,

FUMA'RIA clavicula'ta, white climbing fumitory. H.—H. H.

Not fo common with us as the former, but is to be met with in moist gravelly shady situations. On the road leading to the Dublin mountains, under the hedges above Dundrum, above the little Dargle, car road to Kilmashoge; and many parts of the county Wicklow; slowering in July and August. Along the old hedges at Ballinamore, and shore banks at Renvi, county Galway.

CXXXVI.

POLYG'ALA vulga'ris, milkwort v. & Fl. Ang. Hudson. H.—H. H.

This very delicate variety of milkwort, with myrtle-shaped leaves, is very common in in marshy situations, county Galway, particularly near Tuam. Doctor Smith experienced very good effects from an insusion of our common milkwort, (which is very bitter) in a catarrhous cough, English Botany, 76.

CXXXVII.

O'ROBUS fylvat'icus, bitter vetch. H.—H. H.

A very scarce vetch, but rather common in some of the islands on Lough Corib, particularly Bilberry island, county Galway, where I found it in September, without slower or legumen. The whole plant has a disagreeable bitter taste.

CXXXVIII:

Vl'CIA sylvatica, wood vetch.

H .- H. H.

In a great state of luxuriance, and abundantly in the woods to the south of Ross island, Killarney, exhibiting its beautifully striped slowers in the month of July.—Rosstrevor wood, county Down, in abundance, John White.

I prefume

I presume to think, this is the vetch noticed by Sherard, R. Synop. 324, as having been found near Ross-trevor, and not the Orobus fylvaticus, as is so generally supposed. It is perhaps one of the most beautiful indigenous climbers we have, both the leaves and flowers displaying much elegance.

CXXXIX.

TRIFO'LlUM arven'se, bare's foot trefoil.

H.-H. H.

The barren drifting fands all about Rush, county Dublin, abound with the silky soliage of this tresoil, exhibiting its slowers so late as the month of October. Mr Dickenson observes, that this tresoil is highly aromatic, when dried, and that it retains its odour long, Withering, 636.

CXL.

TRIFO'LIUM sca'brum, rough trefoil. H.—H. H.

In dry fandy fields abounding with calcareous stones, the Sutton side of Howth, flowering so early as May.—Mountainous ground, about Millesont, county Louth, John White.

TRIFO'LIUM

CXLI.

TRIFO'LIUM marit'imum, teasel-headed trefoil. H.—H. H.

The Trifolium stellatum of Hudson—found in a field near Kilbarrick church-yard, road to Howth, flowering in August.

CXLII.

PRENAN'THES mura'lis, wall prenanthes.

H.-H. H.

It is considered by many authors as a rare plant, and Doctor Smith, Eng. Bot. v. 7,457, observes that it is sometimes to be met with on a chalky soil, in woods, &c.—As to a chalky soil, I must again repeat it, we have no such in Ireland; but the woods of Collon, county Louth, abound with the Prenanthes muralis.

CXLIII.

HEDYPNO'IS hi'rtum, deficient dandelion. H.—H. H.

The Leon'todon birtum of Withering.—At the North wall, common—the roots of this species are bitten off, not tapering as in H. bispidum, Eng. Bot. v. 8, 555.

HEDYPNO'IS

CXLIV.

HEDYPNO'IS Tarax'aci, alpine Hedypnois. H.—H. H.—A. P.

The Hieracium Taraxaci of Withering, found on the fresh water marshy shore at Innisfallen island, Killarney, slowering in August, common. My specimens, however, do not exactly correspond with the sigure in Eng. Bot. v, 16, 1109, and therefore I notice it with some doubt.

CXLV.

HIERA'CIUM fubau'dum, shrubby leaved hawkweed. H.—H. H.

This species of Hieracium, sometimes mistaken for Hiera'cium umbella'tum, is to be met with in shady situations, growing among the rocks near the shore, south side of Ross, Killarney, and near the cultivated part of the island to the left as you enter it, slowering in July.—Sleivnamhady or the Dog's mountain, county Down, John White; who likewise found in the same place a variety with spotted leaves.

CXLVI.

HIERA'CIUM fylvat'icum, wood hawkweed. H.—H. H.

Was formerly supposed to be a variety of H. Murorum, but from which it differs materially

terially, and is now confidered as a distinct species, and scarce plant. Along the river banks, Bryansfort, soot of Mourn mountains, county Down, John White.

CXLVII.

CORE'OPSIS Bi'dens.

A. P.— H.—H. H.

This plant, which is considered by very respectable authority as a variety of Bidens cernua, but to which I cannot assent, is as common as the latter, in watery situations in the county Galway.—Renvi, Cunnamara—and between Cloghan and Tullamore, in abundance, flowering in September.

CXLVIII.

CAR'DUUS praten's, meadow thistle.

H.—H. H.

This thistle, which I don't consider as a very common species in general, is to be found rather abundantly in the sields, in the county Galway.

CXLIX.

CAR'DUUS tenuiss'orus, slender flowered thistle.

H.—H. H.

Common about Dublin, and in many other parts of Ireland.

SOL IDA'GO

CL.

SOLIDA'GO Cam'brica, Welsh goldenrod. H.—H. H.

In its wild state, it attains to a very few inches in height, but when cultivated to many. Along the banks at Bryansford river, at the foot of the Mourn mountains, county Down, John White.

CLI.

ARTEMIS'IA Ablin'thium, common wormwood. H.—H. H.—H. M.

On the lands of Howth, and Bray, particularly by the way fides, very common.— Abundantly on Buffin island, Cunnamara. The immortal Haller affirms, that, from a long use of wormwood, he has kept himself free from gout. The ashes of wormwood are said to afford a more pure alkaline salt, than most other vegetables.

CLII.

ARTEMIS'IA marit'ima, fea-wormwood. H.—H. H.—H. M.

In muddy fituations, near the coast, here and there about Howth. Doctor Withering observes, that in its wild state it smells like Marum

Marum, or Camphor, but when cultivated in gardens it is less grateful.

CLIII.

GNAPHA'LIUM margarita'ceum, American cudweed, pearly everlasting.

H.-H. H.

Found this species of everlasting, completely in a wild state, on the banks of old ditches, and old mud walls at Cloghreen, Killarney, slowering in August. I am informed it grows wild near the town of Wexford.

CLIV.

GNAPHA'LIUM fylvat'icum, upright cudweed. H.—H. H.

On Lettery mountain, and other places about Ballynahinch, Cunnamara, flowering in September. Bears a strong resemblance to Gnaphalium restum.

CLV.

GNAPHA'LIUM dioi'cum, mountain cudweed. H.—H. H.—A. P.

Common in boggy and mountainous fitutions—abundant on the Burren mountains— Bog of Allen—Dublin mountains, near Kilmashoge—near Nenagh—between Moat and Athlone.

EUPAT'ORIUM

CLVI.

EUPAT'ORIUM cannab'inum, var. folio integro. H.—H. H.

The entire leaved variety of hemp agrimony, I found on Bilberry island, Lough Corib. Mr. Woodward says that this is the seedling plant of early flowers the first year; the second year it has singered leaves, as he has surequently observed.

CLVII.

INU'LA Hele'nium, common elecampane. H.—H. H.—H. M.

Found at Craggone, near the old bridge, in the barony of Inchiquin, flowering in September, and above four feet high. A decoction of the root is faid to cure sheep, that have the scab.

CLVIII.

AN'THEMIS nob'ilis, common camomile.

H.—H. H.—H. M.

The open gravelly commons, and high road at Glogen, near Renvi, Cunnamara, furnish this very useful stomachic medicine in considerable quantity, slowering in September.—At the foot of Tullybranagan mountain, county Down, John White.

LOBE'LIA

CLIX.

LOBE'LIA Dortman'na, water Lobelia.

A. L.

Abundantly in the lakes about Killarney, on the clear gravelly bottoms, near their edges.— All the loughs in Cunnamara abound with this elegant and fingular plant, flowering in September. It affords a milky juice.

CLX.

VI'OLA arv'enfis, Sibthorp. 84.

н.—н. н.

Very common in the fandy fields about Rush and Howth, flowering so late as October.

CLXI.

VI'OLA lu'tea, yellow mountain panfy. H.—H. H.

I set down this pansy as a distinct species, yielding to high authority, yet I doubt but it should be considered as merely a variety of *Viola tricolor*, or common pansies.

Be this as it may, it is to be met with on the road to Howth, between the Sheds of Clontarf, and the old mill ground of Raheny, about the rabbit-burrow. On the fandy hills of Dough Dough and Ballingaddy, county Clare.—Mr. Afzelius informed Doctor Withering, that this plant was intirely unknown to Linnaus.

· CLXII.

VI'OLA cani'na, var. alpina, Hud. Fl. Anglic. H.—H. H.

Found this alpine dog's violet of Hudson on the large stones, to the west of Lettery mountain, Ballynahinch, Cunnamara.

Slips of white paper, stained with the juice of the petals of violet, particularly the sweet garden violet, and kept from the air, and light, are good chemical tests to detect an acid or an alkali, the former changing the blue colour to a red, and the latter to a green, Withering.

CLXIII.

OR'CHIS latifo'lia, broad leaved marsh Orchis. H.—H. H.—A. P.

Near Kingstown at the foot of the Dublin mountains in the very wet meadows.—Long meadows, going to Chapelizod.—Lambay.—On the marshy fields about a mile beyond Laughlinstown, to the west; and in many other marshy situations in Ireland.

It is highly probable that this, and every other species of our common Orchis, as well as the O.mascula, noticed in the 59th vol. of Phil. Trans., may be used indiscriminately for making salep, and affording an excellent nutriment in times of scarcity. If plantations should ever be made of this valuable restorative, the plants must be propagated by their roots; as Doctor Percival of England frequently attempted to propagate them by apparently perfect seeds, but they would not vegetate; and it is somewhat singular that the seeds of all the true Orchidea have never hitherto been known to vegetate.

CLXIV.

SATY'RIUM hirci'num, lizard Satyrium, or Orchis. H.—H. H.

This very rare, and tall orchis is to be met with in very shady situations among shrubs; producing abundant slowers in the beginning of August, in the Barrony of Tullagh, county Clare. The slowers are said to smell like a goat, hence, I suppose, the trivial name.

CLXV.

SATY'RIUM viride, frog Satyrium, or Orchis. H.—H. H.

In a gravelly foil; a fingle plant growing here and there, and distant from one another, flowering in June.—Moist meadows along the river side, Tinure, county Louth, John White. Doctor Stokes of England moistened the Anthera with water, but which appeared to remain unchanged by the application, and did not seem to contain any visible pollen.

CLXVI.

SATY'RIUM al'bidum, white Satyrium.

H.-H. H.

On the high exposed grounds, near that beautiful and romantic spot in the county Wicklow, called Luggylaw, this delicate and remarkably straight satyrion is to be seen in no inconsiderable quantity, slowering about the middle of June; likewise near the three-rock mountain, same county.

CLXVII.

O'PHRYS Nidus a'vis, bird's nest Ophrys.

H.-H. H.

In the thickets, among the rotten leaves, Luttrel's-town wood, county Dublin, flower-, ing so early as April. It very much resembles an *Orobanche*, the whole plant being brown.

O'PHRYS

CLXVIII.

O'PHRYS corda'ta, heart-leaved mountain Ophrys, or twayblade. A. P.

The turfy marshes at Loughbray, near the new military road, afford this very small Ophrys in tolerable quantity; and from its diminutive stature, and attachment to shady spots, it might be frequently overlooked.

CLXIX.

O'PHRYS mu'scifera, fly Ophrys.

н.--н. н.

Between the Deer-park wall, and Finglass river, county Dublin, in the pastures frequently; and more rare between Rathfarnham and Kilgobbin mountain, same county; flowering in July.

CLXX.

O'PHRYS a'pifera, bee Ophrys, or bee flower. H.—H. H.

Abundantly on the clayey grounds about Youghall. In the midway between Stockoole and St. Doulagh's, on the left hand, between the path and the ditch, county Dublin; and many other places in Ireland; flowering in June.

SERA'PIAS

CLXXI.

SERA'PIAS latifo'lia, broad leaved common belleborine. H.-H. H.

In the fiffures of the rocks, and the shady hedges in the woods at Ross, Killarney, slowering in August.

CLXXII.

SERA'PIAS palu'stris, marsh belleborine.

A. P.

Fenny meadows at the foot of the Dublin mountains, particularly near Stag's-town, and King's-town; and many other places in Ireland; flowering late in the season.

CLXXIII.

CHA'RA flex'ilis, smooth Chara.

A. P.

In the marshy ditches, near the shore of Lough Corib, Lemon-sield, and the salt water, dirty ditches, near Ballynahinch, Cunnamara.

CLXXIV.

CHA'RA his'pida, prickly Chara.

A. P.

The clayey dirty ditches near Ballynamorebridge, county Galway, afford it in abundance. dance. This species, as well as the Charavulgaris, when fresh is very fetid.

CLXXV.

LEM'NA triful'ca, ivy leaved duck's megt.

A.P.

In the bog of Curragha, county Dublin.— Stagnant waters, near Tuam.

CLXXVI.

SPARGA'NIUM na'tans, floating burr-reed, Linnai. A. L.

The true Sparganium natans I found in stagnant pools, or rather turf holes, and not very abundant, in Ballyphahane bog, near Cork, slowering in July. Many places in Cunnamara. The leaves appeared on the surface of the pools, like those of aquatic grasses.

CLXXVII.

CAR'EX dioi'ca, small seg. A. P.

Frequently to be met with in boggy fituations, flowering in June.

CLXXVIII

CA'REX pulica'ris, flea seg. H.—H. H.

At the foot of Mangerton mountain, Killarney.—Lettery hill, Ballynahinch, Cunnanara,

mare.—At Howth, county Dublin in the muddy, turfy bottom grounds; flowering in July.

CLXXIX.

CA'REX stellula'ta, little prickly seg.

A. P.

Rather common in marshy barren groundson the sides of the wet ditches, Curragha bog, county Dublin, slowering in June. Haller justly observes, that this Carex is distinguished from C. muricata by having the point of the capsule acute, and not cloven.

CLXXX.

CA'REX cur'ta, white seg.

A. P.

The Carex brizoides of Hudson—in small quantities, in the marshes at the soot of Mangerton mountain, Killarney.—Lettery hill, Cunnamara.—Curragha bog, county Dublin; slowering in August.

CLXXXI.

CA'REX ova'lis, naked, or oval spiked seg.

A. P.

The Caren Leporina of Hudson—common in marshes and wet pastures, at Howth, and Curragha bog, county Dublin, slowering in July.

CLXXXII.

CA'REX remo'ta, remote seg.

A. P.

As common as the former; in the moist parts of the woods of Santry, Luttrel's-town, Bracken's-town, and the sides of marshes at Howth, county Dublin; slowering in July.

CLXXXIII.

CA'REX arena'ria, fea feg. H.—H. H.

Pretty common on the drifting fand, near the fea shore at Howth, and on Ireland's-Eye; slowering in July.

CLXXXIV.

CA'REX interme'dia, foft feg.

A. P.

The Carex difficha of Hudson—in the bog of Curragha, and the marshy ground in Santry wood, county Dublin; flowering in July—much resembles C. ovalis.

CLXXXV.

CA'REX divi's, marsh seg. H.—H. H.—A. P.

Salt water marshes at Aghris and Renvi, Cunnamara; and in the bog of Curragha, flowering in August.

CLXXXVI.

CA'REX murica'ta, spiked seg.

A. P.

Banks of watery spots in a shady situation, Curragha, county Dublin.

CLXXXVII.

CA'REX vulpi'na, great seg.

A. P.

Is amongst the largest species of Carex, and I believe not very common. In the marshes at Howth, and several other places, county Dublin; slowering in May.

CLXXXVIII.

CA'REX panicula'ta, panicled feg.

A. P.

Bog of Curragha, in the shady watery spots, slowering in July.

CLXXXIX.

CA'REX pen'dula, pendulous seg.

A. P.

In the moist parts of Santry, and Bracken's-town woods, and to the N. east of the hill of Howth, slowering in June. The size of this Carex, being sometimes three, and sour feet hight, and its long hanging spikes, are appearances which make it easily ascertained.

CXC.

CA'REX firigo'sa, loose pendulous seg. H.—H. H.

Very similar to Carex Sylvatica, and more common than supposed in the hedges of woods in Ireland. At the old Dargle, county Wicklow, and Luttrel's-town wood, county Dublin, rather common; likewise at Curragha, flowering in June.

CXCI.

CA'REX præ'cox, early flowering feg.

A. P.

In the bog of Curragha, and many moorish heaths, flowering in May.

CXCII.

CA'REX fla'va, yellow feg, marfb hedgehog grafs.

A. P.

Common in marshy situations; slowering in June, at Howth.

CXCIII:

CA'REX dis'tans, loofe feg. H.—H. H.—A. P.

Near the top of Mangerton mountain, Killarney.—In the marshes to the S. W. of Howth, and on Ireland's eye, flowering in July.

CXCIV.

CA'REX fylva'tica, wood feg. H.—H. H.

Very similar as I observed before to Carex Arigosa—common in woods.

CXCV.

CA'REX recur'va, beath feg.

H.-H. H.

At Howth in the heathy moist pastures, Sutton side, flowering in July, and on Ireland'seys.

CXCVI.

CA'REX palles'cens, pale seg.

A. P.

Curragha bog, flowering in July.

CXCVII.

CA'REX limo'sa, brown feg

A. P.

The Carex elegans of Wildenow—with the former, and in many other boggy fituations, flowering in July.

CXCVIII.

CA'REX pseudo-cype'rus, bastard cypress seg. H.—H. H.

Not very uncommon in wet woods; as at the old Dargle, county Wicklow—Bracken's-town wood, county Dublin, &c.—likewise at Curragha.

CXCIX.

CA'REX piluli'fera, round-headed feg. H.—H. H.

Moist heaths, and pastures, Howth, slowering early.

CC.

CA'REX cæspito'sa, turfy seg.

A. P.

Has many particulars common with Carex fricta; and I confess, only that the last flowers much earlier, I should take them to be the same—rather common in marshes, as at Howth, &c., flowering in June.

CCI.

CA'REX stri'cta, glaucous straight-leaved seg.

A. P.

Bears a strong resemblance to the former; but is much larger, and slowers much earlier; so early, as the latter end of April. Found in the bog of Curragha.

CCII.

CA'REX ripa'ria, great feg.

A. L. F.

The C. acuta var. a Hudson. Very common on the edges of rivers, and watery situations; flowering in June.

CCIII.

CA'REX acu'ta, slender-spiked seg.

A. L. F.

As common as the former, and in fimilar fituations.

CCIV·

CA'REX paludo's, leffer common feg.

A. L. F.

With the two former very frequently; flowering in July, or late in June.

CCV.

CA'REX vesica'ria, bladder feg.

A. P.

In the bog of Curragha; flowering in June. The Reverend Doctor Goodenough, whose very ingenious and scientific paper in vol. II. of the Linnman Transactions, has thrown a new light on the genus Caren, by its giving an elegant and instructive synoptical view of this very difficult tribe, observes that the Caren vesicaria is easily distinguished, by its yellow hue, narrow short scales, and instated smooth conic capsules.

CCVI.

CA'REX hir'ta, bairy feg.

Not uncommon in wet meadows, and marfly places, flowering in July, at Howth.

CCVII.

CA'REX pani'cea, pinky feg. H.—H. H.

In the wet meadows, and pastures, Scrible's-town, and at Howth, county Dublin; flowering about July. It is very singular that this is the only species of Carex, whose capsules are so commonly subject to be blighted.

CCVIII.

CA'REX rigida, bard feg. H.—H. H.

This scarce Carex is to met with on Bulben, Ennis Owen, slowering in June, Mr. Browne.

CCIX.

ERIOCAU'LON septangula're, jointed pipe-wort.

A. L. F.

The loughs, and waters both running, and ftagnant, so common in Cunnamara, abound with

with this very rare and fingular plant, which has never been feen before, but in the isle of Skye; * and I have the first botanic authority of the present day for saying, that the Eriocau'lon decangula're of Linnæus is an American species, and very distinct from this.

The number of angles on the culmus of our Eriocaulon varies from fix to ten, but feven angles appear to me to be the most frequent.

It is observed that the root is slightly acrimonious when chewed.

CCX.

LITTOREL'LA lacus'tris, plantain shore-weed.

A. P.

Very common in the fandy marshy spots, near Ballynahinch, Cunnamara, and many other parts of the county Galway, slowering in September. Lough Shane, Mourn mountains, county Down, John White.

CCXI.

SAGITTA'RIA fagittifo'lia, common arrow-head.

A. L. F.

This beautiful aquatic is to be met with in many parts of the river Shannon, above and below,

* Eng. Bot. v. XI. 733.

below, Lanesborough, county Longford, flowering in August. The bulb at the lower part of the root constitutes a considerable part of the food of the Chinese, and on that account they cultivate it.

CCXII.

CERATOPHYL'LUM demer'sum, common born-wort. A. L. F.

In stagnant pools, and slow streams, common in Cunnamara; particularly near Ballynahinch.

CCXIII.

CERATOPHYL'LUM fubmer'sum, unarmed born-wort. A. L. F.

With the former, but not fo common.

CCXIV.

SA'LIX fus'ca, brown willow.

F.

Common on the turfy, and heathy mountains, Cunnamara.

CCXV.

SA'LIX depress'a, Hoffman?

F

I found this with the former; filvery on both fides of the leaf.

SA'LIX

CCXVI.

SA'LIX monan'dra, purple willow.

Α.

On the fides of rivers, Cunnamara,

CCXVII.

SA'LIX ci'nerea, fallow willow.

A.

In hedges, wet fituations, Cunnamara—and many other places in Ireland. The bark has been made into coarse paper, and paste board, Withering.

CCXVIII.

SA'LIX herba'cea, herbaceous willow.

F

This willow improperly called herbaceous, but the smallest shrub perhaps yet known, and I may add one of the most scarce of all the British willows, falix retusa only excepted, is pretty common on the top of Mangerton mountain, by the steep side of the horse pool, or Poulna coppel; and on Bulben mountain, Ennis-Owen.—Clests of Scallerea rocks, W. of Bencom mountain, the Cairns rocks, and Slievnamhady or the dog's mountain, county Down, John White.

CCXIX.

EM'PETRUM ni'grum, black crake, or crowberry. F.

Common on the mountains in Ireland. Near Killarney on Mangerton, Turc, and Purple mountains. On the mountainous heaths, Cunnamara, nay on Buffin island Cunnamara coast, and many other parts of the county Galway.

CCXX.

VIS'CUM al'bum, white misseltoe, missel.

Though common in many parts of England, of very rare occurrence in Ireland. This very fingular parafitical ever green shrub, grows on an old apple tree in the physician's garden of the Old man's hospital Kilmainham, and for some years back was not known to produce flowers or berries. By what I could learn the apple-tree, on which it grows, was brought from England. Birdlime is frequently made from the berries and bark. never takes root in the earth. Mr. Holefear observes that sheep eat it greedily, and that it prevents them from having the rot. berries when ripe, rubbed on the viscid smooth bark of almost any tree, will adhere and produce misseltoe the following winter, according

cording to Doctor Hunter, in his editions of Evelyn's Sylva.

CCXXI.

HU'MULUS Lu'pulus, bops.

H.-P.-H. H.-H. T.

The hop, which probably is not indigenous, was found in an apparently wild state near Birr, county Tipperary; and on two very old walls at the west end of the town of Carrosin, county Clare. Strong cloth is made from the stalks of hops in Sweden; and the whole plant is said to dye wool yellow.

CCXXII.

RHODE'OLA Ro'sea, rose-wort.

P.-H.-H. H.

Found on Mangerton mountain, Killarney, on the rocky steep sides of the horse pool, or Poulna Coppel, along with the Salix herbacea—the dried root smells like a rose.

CCXXIII.

HYDRO'CHARIS Morfus ra'næ, frog bit.

A. P.

Common in the bog of Curragha. In the turfy ditches, about Ballynahinch, Cunnamara.

CCXXIV.

TAX'US bacca'ta, common you tree.

A.

Many very fine old large trees of yew are to be seen in the mountainous woods of Glanquin, Burren; and it appears that many were cut down, near a century past. Some very fine pieces of cabinet work made of the beautiful wood of this tree, some time back, are to this day preserved by some of the old inhabitants. The leaves of yew are highly poisonous.

CCXXV.

JU'NIPERUS commu'nis, common juniper.

F.

This evergreen shrub, so very various in its growth, is to be found on the sides of the Cunnamara mountains frequently, in its decumbent, or prostrate state. About the lakes of Killarney, particularly on a rock called Juniper island, near Mucruss. Many of the mountains of Mourn, John White.

Garnett in his Tour says, that a ship-load of the berries used annually to be sent from Inverness to Holland. Gum Sandarach, or Pounce, is the produce of the Juniper tree.

A'TRIPLEX

CCXXVI.

A'TRIPLEX littora'lis, grafs-leaved sea orache. H.—H. H.

In a muddy foil at the S. W. side of Howth, flowering in August.

CCXXVII.

A'TRIPLEX lacinia'ta, ferrated fea orache. H.—H. H.

In the fame fituation with the former, but more on the beach; flowering early in August.

CCXXVIII.

A'TRIPLEX peduncula'ta, pedunculated orache. H.—H. H.

The falt water muddy marshes, Cushtrower bay, near Ballynahinch, Cunnamara, afford it but sparingly.

CCXXIX.

A'TRIPLEX portulacoi'des, sea purssane.

F.

Readily distinguished from the former, being shrubby, the former herbaceous; when both are young, they are very similar in foliage. At Howth, on the muddy clayey part of the fea shore, Sutton side; slowering late in the summer.

CCXXX.

OPHIOGLOS'SUM vulga'tum, adder's tongue.
C.

By no means rare in marshy meadows, and pastures among the short sine grass; slowering in July. Scrible's-town, near the old orchard to the east—Billaly hill, and also on the mountain side from Wood-town to Stack's-town, Dublin mountains. Most meadows along the river side, Tinure, county Louth, John White. Mr. Woodward very justly remarks, that this fern so exactly resembles the Osmunda Lunaria in habit and structure, that they ought by no means to be separated.

CCXXXI.

OSMUN'DA rega'lis, Ofmund Royal, or flowering fern. C.

This beautiful species of flowering fern is very common in some of our spungy bogs.—Counties of Cork, Kerry, Galway, Roscommon, &c.; flowering in September. Dr. Stokes of England observes, that impressions of this fern are frequently observed in the nodules of iron stone

stone in Coalbrook-dale iron works, and that it is the only species of an indigenous vegetable, which he has ever seen in a fossil state. All the other impressions of ferns, which he has seen on iron stone, seem to be those of American growth, and this very species of fern is also a native of Virginia.

The root of this fern boiled in water is very firong, and is used in the North of Europe to stiffen linen instead of starch, Withering.

CCXXXII.

OSMUN'DA Spi'cant, rough spieen-wort.

C.

In Engish Bot. v. 17,1159 it occurs under the name of *Blechnum boreale*, for reasons which the author states—far more common than the former, in stony heathy situations, and slowering about the same time.

CCXXXIII.

OSMUN'DA Luna'ria, moon-wort.

C.

Called so from the shape of its leaves, is rather a scarce plant, growing in moist and dry pastures, and slowering about the latter end of July. At Luggylaw, county Wicklow, and on the Dublin mountains with the Ophioglossum vulgatum, but not in any quantity.

tity. About Rathfarnham and Templeogue, county Dublin.—On the fides of the hills of Carrickmagoagh, Collon, county Lowth, John White.

CCXXXIV.

OSMUN'DA cris p2, curled Osmunda, or stone fern. C.

The Pteris crispa of Eng. Bot. v. 17,1160; but whether the genus Ofmunda or Pteris, I will not here determine; for the present I retain the old generic name, as I conceive this fern is best known by it. On some of the very old walls about Rathfarnbam, and on a large stone, or rather rock, as you enter the village of Dalkey, south side, county Dublin.—On the mountains, about Ballynahinch, Cunnamara.

CCXXXV.

ASPLE'NIUM Ce'terach, common spleenwort.

C.

Scolopendrium Ceterach Eng. Bot. v. 18, 1244. I do not confider this as a common plant, tho' in certain fituations it is to be met with in fome quantity; as on the old walls about Bullock, near the Forrest, Broomsield near Lucan, and some other places, county Dublin. Many places, county Galway; slowering very late.

ASPLE'NIUM

CCXXXVI.

ASPLE'NIUM Tricho'manes, common maiden bair.

On the old orchard walls, Scrible's-town, and Broomfield near Lucan, county Dublin.—Pretty common on the shady rocks, counties of Cork, Kerry, Galway, &c. slowering late. It has been too frequently used as a substitute for the true maiden hair, Adiantum Capillus Veneris.

CCXXXVII.

ASPL'ENIUM Adian'tum ni'grum. black spleenwort, or maiden hair. C.

Pretty common in the woods about Killarney; flowering in August. I met with it, but sparingly, in Cunnamara.—The mountains of Mourne, John White.

CCXXXVIII.

ASPLE'NIUM mari'num, sea fern, or spleenwort.

Grows in tufts out of the crevices of the rocks abundantly at the fouth fide of Howth, near where passengers are landed from the packet

packet in bad weather, in a kind of cave, which is liable to be passed by. On the cliss at, and about Dunleary. Abundantly on Bussin island, coast of Cunnamara.

CCXXXIX.

POLYO'DIUM Phego'pteris, foft pale-stalked polypody. C.

Amongst the rocks on Carlingford mountain, in the most shady part of the mountain.

CCXL.

POLYPO'DIUM Dryo'pteris, three-branched polypody. C.

Found in the stony parts of Turc mountain, Killarney; and amongst the rocks at the fall of Mam Turc, Cunnamara, Joyce country side.

CCXLI.

POLYPO'DIUM aculea'tum, prickly polypody.
C.

In woods, and shady situations in many parts of Ireland.—Bracken's-town wood, and Santry wood, county Dublin.

POLYPO'DIUM

CCXLII.

POLYPO'DIUM crifta'tum, crested polypody.

C.

On the fides of Glynbarrow, Sliebloom mountains.

CCXLIII.

POLYPO'DIUM fra'gile, fine leaved brittle polypody. C.

Dry rocky mountainous fituations in the county Galway, Kerry, and Wicklow.—On the Dublin mountains, very near Tallaght hill.

CCXLIV.

POLYPO'DIUM fra'grans, sweet polypody.

C.

Having pulled some specimens of this polypodium from the sissues of the humid rocks in Earl Kenmare's park Killarney, and mistaking it for *Polypodium Oreopteris*, or *Thelypteris*; I was somewhat surprised at the very agreeable odour which it emitted, similar to that of our common Anthoxanthum odoratum, sweet smelling spring grass, or the Siberian Holcus odoratus—this circumstance led me to a closer examination sometime afterwards,

afterwards, and I may now almost venture to pronounce its being the true P. fragrans of Linnæus, fp. pl. 1550 foliolis confertis obtusts ferratis, as noticed by Hudson, Fl. Ang. ed. alt. 457. I am free to acknowledge however, that the figure of Polypodium fragrans, as noticed by Dessontaines in his Flora Atlantica, does not correspond with my specimens.

CCXLV.

ADIAN'TUM Capil'lus-ve'neris, true maiden hair.

C.

Patrick Bride, Esq. a member of the Dublin Society, was so obliging as to procure for me some beautiful specimens of this scarce plant from the south islands of Arran, Cunnamara coast of Galway, and from further information I can now safely state, that it grows in those islands in great abundance. This is the plant, which gave name to the syrup called Capillare, but I may venture to affert that it never has any of this plant in its composition, being usually made with sugar and water only, and sometimes with the addition of a little orange slower water.

TRICHO'MANES

CCXLVI.

TRICHO'MANES Tunbri'dgense, Tunbridge goldilocks. C.

This the Hymenophyllum Tunbridgense of English Botany, is to be met with amongst moss, on moist rocks to the south of Turc bridge, Killarney and in the Glynn, Earl Kenmare's park, and many other places in Ireland.

CCXLVII.

ISOE'TIS lacus'tris, quill-wort.

A. L.

Found under the water about the margins of upper Loughbray, county Wicklow. In many of the Loughs, Cunnamara.

CCXLVIII.

PILULA'RIA globuli'fera, pill-wort, pepper moss, pepper grass. A. P.

In a fandy boggy fituation near the falmonleap, Ballynahinch, Cunnamara, a fpot which appeared to be subject to inundation; slowering in August.

LYCOP'ODIUM

CCXLIX.

LYCOPO'DIUM clava'tum, common club moss.

C.

Common on mountainous fituations in many parts of Ireland. It is faid to restore ropy wine in a few days.

CCL.

LYCOPO'DIUM Salaginoi'des, prickly, or ciliated club moss. A. P.

In a boggy spot, by the fide of a stream of water near Derry. At Howth. Mam Turc mountain, Cunnamara.

CCLI.

LYCOPO'DIUM Sela'go, fir club moss.

C

Found on Mangerton and Purple mountains Killarney, pretty common among the heaths.—
Mountains in Galway common.

CCLII.

LYCO'PODIUM alpi'num, alpine club moss.

C.

Common on feveral high mountains in Ireland.

SPHAGNUM

CCLIII.

SPHAG'NUM palus'tre, grey bog moss.

A. P.

The three varieties of this moss are common in our bogs; the second variety of Withering the most scarce; slowering late in August.

CCLIV.

SPHAG'NUM alpi'num, alpine bog moss.

A. P.

In boggy marshy ground at the back of Stream's-town house, Cunnamara, with ripe capsules in September.

CCLV.

PHAS'CUM fubula'tum, awl-leaved earth mofs.

C.

On banks of fandy mosfly ditches not uncommon; slowering early in September.

CCLVI.

PHAS'CUM curvicol'lum, erooked Phascum.

C.

Found in a barren graffy spot at the foot of Lettery hill, Ballynahinch, Cunnamara, with

with its ripe capfules in August. Both this and the former are so very minute, that they may be frequently passed by unnoticed.

CCLVIL

FONTINA'LIS antipyre'tica, greater water mess.

A. L. F.

Luckily found it in fructification floating with the stream in a rivulet to the south of Turc, Killarney—without fructification, it is not very uncommon.

CCLVIII.

FONTINA'LIS squamo'sa, scaly water moss.

A. L. F.

In rivulets to the north of Mangerton mountain, Killarney, in fructification the beginning of September. Mam Turc mountain, Cunnamara, not in flower in August.

CCLIX.

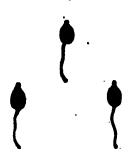
FONTINA'LIS secun'da, tree Fontinalis.

C.

Very frequently on trees in orchards.—On trees near Kilcock; flowering very late in the feafon.

FONTINA'LIS





Buxbaumia aphylla.

CCLX.

FONTINA'LIS alpi'na, alpine water moss.

C.

Found on stones on the side of the Liffey. near Leixlip; in fructification the latter end of July.

CCLXI.

BUXBAU'MIA folio'sa, leafy Buxbaumia.

This very rare moss, the Phascum montanum of Hudson, was found upon the rocks covered with scarcely any earth, on the north side of Purple mountain, Killarney.—On Mam Turc. Cunnamara—and at the Waterfall, county Wicklow. Both above and below the Waterfall. Doctor Stokes.

CCLXII.

BUXBAU'MIA aphyl'la, leafles Buxbaumia.

As I have never feen the Buxbaumia aphylla noticed in any British Flora, or catalogue, I may venture to set myself down as the first discoverer of it in the British islands; and I must confess, were it not for the excellent descrip-

tion,

tion, and accurate figure given of it in the Historia Muscorum of Dillenius p. 477. t. 68. f. 3. A. B. C. D. E., which by chance I was looking over, I must have remained ignorant of its true name to this day—Dillenius calls it mushroom-headed moss, a name in some meafure applicable—even with this authority, I put it into my cryptogamic herbarium with a mark of doubt? Which was some time afterwards removed by Mr. Brown, a very excellent and most accurate botanist; and who, I understand, is now engaged in a voyage of discovery—he assured me, it was the true Buxbaumia aphylla. If I mistake not, I gave this gentleman fome specimens for Mr. Dixon, of Covent Garden, London.

On decayed leaves impacted with earth, in a shady situation to the south of Purple mountain, Killarney, in its capsular state in July.*

SPLACH'NUM

* A little work now lies before me on Irish mosses, Muscologia Hibernica Spicilegium, just published by a Mr. Turner of Yarmouth; and who, I understand, spent a sew weeks in Ireland.—He notices the Buxbaumia aphylla as having been found by D. Wade on rocks near Killarney.—If I am the person alluded to by this gentleman, I consider myself highly slattered, by his very polite anticipationary attention.

CCLXIII.

SPLACH'NUM mnioi'des, brown tapering Splachnum. C.

On Mam Turc, Cunnamara, on the dung of animals, very near the fummit of the mountain; in fructification early in September.

CCLXIV.

POLY'TRICHUM commu'ne, common Polytrichum.
C.—A. P.

The three varieties of Withering, common in Ireland; in woods, heaths, and boggy fituations.

CCLXV:

POLY'TRICHUM alpi'num, alpine Polytrichum.

C.

On Mangerton, Carlingford, Mam Turc, and many other mountains in Ireland; in its capfular state, July and September.

CCLXVI.

POLY'TRICHUM urni'gerum,

C.-A. P.

On the road fides in boggy ground between Oughterard and the Recess, Cunnamara; and between Ballinasloe, and Shannon bridge; with ripe capsules in September.

CCLXVII.

POLY'TRICHUM aloi'des, dwarf Polytrichum.

C.

The Polytrichum nanum of Hudson.—In a muddy soil, Ross island, and near Turc bridge, Killarney; in the last situation with Lichen fragilis—the capsules in the former, and the saucers silled with black powder in the latter, perfectly formed in August.

CCLXVIII.

MNI'UM glau'cum, glaucous Mnium.

C.

This, the Dicranum glaucum of Hedwig, was found with ripe capfules in the month of August, on the south side of Purple mountain, Killarney;

Killarney; and which, at the time I picked it up, I took to be a variety of Sphagnum palustre.

CCLXIX.

MNI'UM pseudo-tri'quetrum.

C.-A. P.

Found on the edges of turf pits in Curragha bog, county Dublin, with ripe capfules in April; and by the margins of rivulets with Saxifraga stellaris, near the summit of Mangerton, Killarney, with ripe capsules in August. A turf pit, within about half a mile of Aghris house Cunnamara, near the sea side.

CCLXX.

BRY'UM acu'tum, acute Bryum.

C.

On the fides of Lettery-hill, Ballynahinch, Cunnamara; with ripe capfules in September.

CCLXXI.

BRY'UM latera'le, lateral Bryum.

C.

This the Bartramia Halleriana of Hedwig, and which I confider as a very scarce moss, was found with ripe capsules in the month

of August, near the top of Purple mountain, Killarney, in a stony shady spot, in very small quantities.

CCLXXII.

BRY'UM cris'pum, ftriated Bryum.

C.

This, the Orthotrichum crispum of Hedwig, is common on trunks of trees in Ireland. I never could detect it in its capsular state.

CCLXXIII.

BRY'UM flex'uofum, waved Bryum.

C.

Grows in abundance on the N. W. fide of Cullinagh mountain, Queen's county. For this information I am obliged to Mr. Bradbury.

CCLXXIV.

BRY'UM capill'aceum, summer Bryum.

C.

Grows plentifully in the neighbourhood of Dunrea fort, Ennis Owen. It is the Swartia capillacea of Hedwig.

HYPNUM

CCLXXV.

HYP'NUM ftramineum, ftraw-coloured Hypnum, C.—A. P.

In a marshy situation, at Cloposk, near Stradbally, Queen's county, Mr. Bradbury,

CCLXXVI.

HYPNUM lo'reum, spreading Hypnum.

C.

On Lettery hill, Ballynahinch, Cunnamara; in a shady spot near the top of the mountain, with ripe capsules in September.

CCLXXVII.

HYP'NUM compres'fum, compressed Hypnum,

C.

This, the Hypnum mollufeum of Hedrer; was found on an old tree to the east of Santry wood, county Dublin, with ripe capfules in May. Bears a strong resemblance to our common Hypnum filicinum.

HYP'NUM

CCLXXVIII.

HYP'NUM attenua'tum, slender Hypnum.

C.

The Leskea attenuata of Hedwig; found on the trunks of old Beech trees, to the north of Innisfallen, Killarney.

CCLXXIX.

HYP'NUM cuspida'tum, pointed Hypnum.

C.-A. P.

Found with ripe capsules in the month of June, in the moist parts of the woods of Santry, and Luttrel's-town, county of Dublin.

CCLXXX.

HYP'NUM sciuroi'des, creeping Hypnum.

C.

Creeping and fixed on old trees in a wood, near Laughlin's-town, county Dublin.

HYP'NUM

CCLXXXI.

HYP'NUM sylva'ticum, wood Hypnum.

.. C.

On some old stumps of trees in the wood of St. Catharine's, county Dublin; with ripe capsules in June.

CCLXXXII.

HYP'NUM abie'tinum, fir Hypnum.

C.

On Lettery mountain, Cunnamara, in September, with not the least vestige of fructification. The leaves, being perfectly straight, distinguish it from the common *H. filicinum*.

CCLXXXIII.

HYP'NUM intrica'tum, matted Hypnum.

C.

The very excellent figure, given of this fcarce moss in the third volume of English Botany, p. 202, has enabled me to ascertain it with certainty; and which I found in the woods of Mucruss, Killarney, with ripe capfules in August.

HYPNUM

CCLXXXIV.

HYP'NUM viticulo'sum, cylindrical Hypnum.

C.

in front in front fituations about the roots of trees in the woods at Shane's castle, county Antrim; with ripe capsules the latter end of May.

CCLXXXV.

HYP'NUM polyan'thos, Schreber.

C.

In many respects it differs from the H. filiforme of Hudson, or filifolium of Withering, ed. 4. 844.; and therefore, the moss I have found answering most minutely the description given by Schreber, I have adopted his very appropriate name.

Mucrus, Killarney; in its capsular state so late as the latter end of the month of august.

CCLXXXVI.

JUNGERMAN'NIA afplenioi'des, fpteenworth Jungermannia. C.—A. P.

In the very wet shady parts of the woods at Mucrus, Killarney, in August without capsules. I could not discover that it was sweet-scented, as observed by Withering.

CCLXXXVII.

JUNGERMAN'NIA fcala/ris,

C

In the wood of St. Catharine's county Dublin, the very shady part to the west.

CCLXXXVIII.

JUNGERMAN'NIA lanceola'ta, lanceolate Jungermannia. C.

On rotten trunks of trees, in a most shady part of the wood of St. Catharine's, county Dublin.

CCLXXXIX.

JUNGERMAN'NIA bicuspida'ta, forked Jungermannia. C.

Found in the woods at Mucruss, Killarney, on some old twigs of bramble in August, but not in fructification.

CCXC.

JUNGERMAN'NIA nemoro'sa, fringed Jungermannia. C.

Met with this rare species of Jungermannia in a woody shady situation, near the cottage, Ballynahinch, Cunnamara, in August; but not in fructification.

CCXCI.

JUNGERMAN'NIA cochlearifor'mis,

C .-- A. P.

By the fides of marshy rivulets, near the middle of the ascent to Mam Ture mountain, Cunnamara; in fructification in September.

CCXCII.

JUNGERMAN'NIA triloba'ta, trifid Jungermannia. C.

On Lettery mountain, Ballynahinch, Cunnamara, near the summit of the mountain, to the east—no appearance of fructification in August.

CCXCIII.

JUNGERMAN'NIA rep'tans, creeping Jungermannia. C.

To be met with in many shady moist situations in woods; but never could detect it in a state of fructification.

CCXCIV.

JUNGERMAN'NIA dilata'ta, scaly Jungermannia.

C.

Very common on the trunks of trees creeping along the bark. I have never met with it in fructification.

CCXCV.

JUNGERMAN'NIA jula'cea, filvery Jungermannia. C.—A. P.

Found it growing in very dense tusts adhering to the large slippery stones in the ascent to Mam Turc mountain, Cunnamara, in September; but could not detect any fructification.

CCXCVI.

JUNGERMAN'NIA tricophyl'la, hairy Jungermannig. C.

have enabled me to ascertain this rare species of Jungermannia; which I found in August, with no fructissication in a heathy turfy situation, near Oughterard, county Galway.

CCXCVII.

MARCHAN'TIA hemisphæ'rica, hemispherical

Marchantia. C.—A.P.

Not uncommon, about the crevices of moist rocks, on the mountains near Killarney, and in Cunnamara.

RIC'CIA.

CCXCVIII.

RIC'CIA fluitans, floating branched Riccia.

A. F.

Sometimes to be met with entangled with other plants on the furfaces of ditches. In the fenny ditches, North-wall, county Dublin.

CCXCIX.

LI'CHEN al'bus, white Lichen:

C.

On decayed branches of small shrubs, and mosses pretty common. Hossman observes that, when wet, it is often greenish, and, when rubbed between the singers, has an unpleasant odour.

CCC.

LI'CHEN inca'nus, mealy Lichen.

C.

As common as the former, on the fides of old ditches, on road fides.

li'chen

CCCI.

LI'CHEN cinereus, rock Lichen.

۲.

On lime-stone rocks, rather common. It is this Lichen, which appears on various rocks and stones, of a greyish colour, and so minute as hardly to be distinguished.

CCCII.

LI'CHEN antiquita'tis, foot Lichen.

C.

On old walls, and some large rocks common; resembling small points of ink made with a pen.

CCCIII.

LI'CHEN fla'vus, yellow, or brimftone Lichen.

Very old trees, and pales, furnish it almost vevery where.

CCCIV.

LI'CHEN botryoi'des, green globuled Lichen.
C.

On shady, moist, and generally boggy earth.
Until lately the above six Lichens were considered

fidered as belonging to the genus Byssus; and will be met with under that generic name, in the various botanical works.

cccv.

LI'CHEN rugo'sus, wrinkled Lichen.

C.

"Very common on the bark of old trees."

· · · CCCVI.

LI'CHEN scrip'tus, lettered Lichen.

C

On the bark of very old oaks, but not so common as the former; and from which it is easily distinguished, by the Arabic characters which it assumes.

· CCCVII.

Lil'CHEN fagineus, beech Lichen.

C.

On the bark of many trees, common, particularly the beech; hence its trivial name.

CCCVIII.

LI'CHEN calca'reus, calcareous Lichen.

C.

On limestone rocks, to which it is firmly fixed, rather common. It is reputed to afford a very fine scarlet dye. Wherever limestone rocks occur amongst others, they may be distinguished at first view, by this Lichen growing on it, Withering.

CCCVIX.

LI'CHEN immer'sus, funk Lichen.

C.

To be found now and then on calcareous rock, Dublin mountains.

CCCX.

LI'CHEN sanguina'rius, sanguineous Lichen.

C.

I don't consider this as a scarce Lichen, having found two or three varieties of it on rocks and trees. I believe *Hoffman* was the first who took notice of the *internal red colour* of the tubercles.

LI'CHEN

CCCXI.

LI'CHEN pilula'ris, pill Lichen.

C.

On granite rocks, near Dalkey, and at Howth, county Dublin, a little above the town.

CCCXII.

LI'CHEN cineras' cens, grey Lichen.

C.

This, the *L. cinereus* of English Botany, v, 12, 820, pretty common, on large stones, and sometimes on old walls.

CCCXIII.

LI'CHEN con'fluens, confluent Lichen.

C.

On rocks, rather common in the West of Ireland; the first variety of Withering, ed. iv.

CCCXIV.

LI'CHEN quer'neus, oak Lichen.

C.

On the trunks of old trees, particularly oaks, not unfrequent.

CCCXV.

LI'CHEN geogra'phicus, map Lichen.

C.

Very common on rocks of various species. I think I have sound it on limestone, though it is generally supposed to be confined to granite. Mr. Gough observes, that it is one of the sew British vegetables, that bear the keen air of Skiddaw's top.

CCCXVI.

LI'CHEN fungifor'mis, mushroom Lichen.

C.

On large rocks, covered with turfmould near Ballynahinch, Cunnamara.

LICHEN

CCCVII.

Ll'CHEN ericeto'rum, heath-Lichen.

C.

On pieces of old damp turf, rather common, with the former.

CCCXVIII.

LI'CHEN verna'lis, vernal Lichen.

C:

Common on the barks of trees, especially very old elms.

CCCXIX.

LI'CHEN icmado'phila,

C.

I consider this as a very distinct species from L. ericetorum, as the tubercles in this are perfectly sessile; it is as common, and in the same fituations.

CCCXX.

LI'CHEN flavo-rubes'cens, orange Lichen.

C.

Common on old walls, trunks of trees, and rocks.

LICHEN

CCCXXI.

LI'CHEN pertu'sus, pierced Lichen.

C.

Grows with the former frequently.

CCCXXII.

LICHEN vento'sus, red spangled tartareous

Lichen. C.

On Mam Turc mountain, Cunnamara, on the rocks about half way up the mountain.

CCCXXIII.

LI'CHEN coral'linus, coral Lichen.

C.

Very fimilar to L. calcareus, and nearly as common on rocks, in mountainous fituations. Perhaps it may afford the fame fine scarlet dye, as the L. calcareus does?

LICHEN

CCCXXIV.

LI'CHEN Perel'lus, crab's-eye Lichen.

C.

This Lichen so early known as the days of Ray and Dillenius to be highly valuable, for the purposes of dyeing, is to be found on rocks and stones in many mountains and promontories in Ireland—the rocks at Howth, Bullock, Dalkey, county Dublin furnish it in abundance. "This is the French Orseille or Orchall, used for dyeing in that country, as L. tartareus is used in Scotland, and prepared with volatile alkali in a similar manner; of which a full account is given by Professor Hoffman, from a French work of M. Amoureux of Montpellier, published 1787, by the Academy of Lyons. The plant is more common in the fouth of France than with us (England), and is called Perelle d'Auvergne, for fo M. Amoureux directs us to spell it, not Parelle, which last belongs to some species of Rumer. Tournefort in his voyage mentions it by this name, when he describes the L. Rocella at the island of Amorgos. colour furnished by L. Perellus has rather more of a violet hae than that of L, tartareus, but each is capable of being so modified as to give any tinge of purple or crimson," Eng. Bot. v. xi. 727. "Litmus is prepared from this species of Lichen. For this purpose it is gathered from the rocks in the north of England, and sent to London." Withering, ed. 4. v. 4. 16.

CCCXXV.

LI'CHEN crenula'tus, little crenate Lichen.

C.

Found on rocks in the mountains, near Killarney.

CCCXXVI.

LI'CHEN va'rians, polymorphous Lichen.

C.

Agreeable to the account given of this L. in the second volume of Linnæan transactions, I don't consider it as of rare occurrence, having frequently found it on the bark of old trees, particularly on apple and walnut.

CCCXXVII.

Ll'CHEN a'ter, black shielded Lichen.

C.

Very common on old frones, and brick walls.

CCCXXVIII.

LI'CHEN concen'tricus, concentric Lichen.

C.

On many rocks at Howth, Bullock, and Dalkey, county Dublin.

CCCXXIX.

LI'CHEN subfus'cus, brownish Lichen.

C.

Common on old walls, and bark of trees.

CCCXXX.

LI'CHEN palles'cens, pale Lichen.

C.

On rocks, walls, and trunks of old trees.

CCCXXXI.

LI'CHEN tarta'reus, tartareous Lichen.

C.

Rather common on limestone rocks. Rev. Mr. Kelly favoured me with some beautiful specimens from the county Wicklow. "This Lichen is much used in dycing. The gatherers carefully choose such specimens as are of a firm.

a firm dense texture, and they never scrape the same rock oftener than once in five years. It is prepared for use with volatile alkali and alum, but the exact process is kept a secret by the manufacturers at Glasgow; when fold to the dyers, it appears in the form of a purple powder, called Cudbear, (a corruption of Cuthbert, the name of its inventor.) powder, being boiled with woollen yarn, communicates its colour to it, but-not to vegetable fubstances. The colour is far from permanent," Eng. Bot. v. 3. 156. Smith's Tour on the Conti-" Being common in nent, vol. 1. p. 198. Derbyshire, where it incrusts most of the stones at Urswic Mere, it is gathered for the dyers by the peafants, who fell it for a penny a pound—they can collect 20 or 30 pounds a day. It gives a purple colour," Withering.

CCCXXXII.

Ll'CHEN obscu'rus, obscure Lichen.

C.

On large stones, near Ballynahinch, Cunnamara.

CCCXXXIII.

LI'CHEN mura'lis, wall Lichen.

C.

Not uncommon on very old walls.

CCCXXXIV.

LI'CHEN stella'ris, starry Lichen.

C.

The three first varieties of Withering are to be me met with pretty commonly on the old bark of many trees.

CCCXXXV.

LI'CHEN physo'des, inflated Lichen.

C.

Frequently to be found growing in heathy fituations, on large stones, and old trunks of trees.

CCCXXXVI.

LI'CHEN centrifugus, spreading Lichen.

C

On rocks, walls, and trees, frequent.

CCCXXXVII

LI'CHEN saxa'tilis, grey stone Lichen.

C.

Common on rocks and stones, at Howth, Bullock, Dalkey, &c. I have large specimens full of fructification.

CCCXXXVIII.

LI'CHEN omphalo'des, purple rock Lichen.

C.

This species of Lichen nearly approaches the former, but is easily distinguished from it by the dark purplish brown hue, which L. amphalodes assumes. It is used by the Highlanders, and Welch, to dye purple and dark brown, as well as L. tartareus already noticed. In the north of Ireland it is used for the same purposes, and is there called stone crottles. Doctor Patterson of Derry obliged me with many fine specimens, abounding with shields; he informs me, that the rocks on the N. and N. W. coasts of the province of Usster are covered with it.

On the rocks at Howth, Bullock, and Dalkey, and many mountainous fituations, rather common. It is generally known by the name of *Cork*, *Corker*, or *Archell*. The Welsh call it *Kenkerig*—it has been used as a styptic, *Withering*.

CCCXXXIX.

LI'CHEN parieti'nus, yellow wall Lichen.

C.

Nothing can be more common, attaching itself to almost every thing.—It is reputed to dye yellow.

CCCXL.

LI'CHEN oliva'ceus, olive Lichen.

C.

On the trunks of trees in Santry, Bracken'stown, and Luttrel's-town woods, county Dublin.

CCCXLI.

LI'CHEN pyxida'tus, cup Lichen.

C.

All the varieties of Withering to be found on heaths, and about the trunks of old trees covered with moss; and on old ditch banks common.

CCCXLII.

LI'CHEN fimbria'tus, ferrated cup Lichen.

C.

Perhaps it is only a variety of the former, and with which it is frequently found.

CCCXLIII.

LI'CHEN coc'ciferus, scarlet-tipped cup Lichen.

C.

With the two preceding, common.

CCCXLIV.

LI'CHEN cornu'tus, horned, or skewer Lichen.

C.

On heaths, with the former very frequently.

CCCXLV.

LI'CHEN cornucopioi'des, radiated Lichen.

C.

On moors and heaths with the four preceing; all of which are to be met at, and about Howth, and the mountains of Dublin, &c.

CCCXLVI.

LICHEN globiferus, globe Lichen.

C.

On the rocky mountainous heaths, Killarney, and county Galway.

CCCXLVII.

LI'CHEN fra'gilis, brittle Lichen.

C,

Found some beautiful specimens with ripe shields, full of a sooty powder, on the rocks, road side, near Turk bridge, Killarney, in August.

CCCXLVIII.

LI'CHEN rangiferi'nus, rein-deer Lichen.

C.

Nothing can be more common than this very useful Lichen, on all the mountainous heaths. The rein-deer, the entire support of the wandering Laplander, is wholly supported by this plant in winter, and on which they will grow fat. It grows in Lapland much more high, than with us, covering the ground like snow.

CCCXLIX.

LI'CHEN uncia'lis, fhort perforated Lichen.

C

In the fame fituations as Lichen rangiferinus, and nearly as common.

CCCL.

LI'CHEN pascha'lis, crisp Lichen.

C

This is considered as a rare Lichen.—Our mountains about Killarney furnish it in tolerable quantity, and many other high mountains in Ireland. Doctor Smith mentions in his tour on the Continent, vol. 2. 113. that L. paschalis is the first beginning of vegetation on lava, and he imagines that it is peculiarly attached to a volcanic soil.

CCCLI.

LI'CHEN spino'sus, prickly distorted Lichen.

C.

I found a few specimens on Purple mountain, Killarney—perhaps it is only a variety of L. uncialis.

CCCLII.

LA'CHEN furca'tus, forked Lichen.

C.

Found with the former; and on Mangerton, and Turc mountain, Killarney.

CCCLIII.

LI'CHEN hir'tus, common rough Lichen!

Ć.

Very common on old fruit-trees.

CCCLIV.

LI'CHEN pubes'cens, pubefoent Licben.

~

Found some specimens with ripe shields on the top of Purple mountain, Killarney—perhaps my specimen is the L. lanatus of English Botany?

CCCLV.

Lichen. C.

Frequently to be met with in woods on the old trunks, and branches of trees.—On apple trees.

It is supposed to dye woollen yellow, and when mixed with glass, powdered to poison wolves; the glass in the composition would appear to me, to be the effectual poison, or destroyer of those animals.

CCCLVI.

LI'CHEN plicatus, stringy Lichen.

C.

Found but very sparingly on the branches of trees, in the very close shady part of the woods at Mucruss, Kalarney, without shields in August.

CCCLVII.

LICHEN Ao'ridus, flowery Lichen.

C

On very high trees in the old part of the wood of St. Catherine, county Dublin; and in space of the old woods about Killarney.

In Nicholson's Journal for September 1801, some directions are given by Earl Dondonald for extracting gum from tree moss, by which, I suppose, his Lordship means the L. plicatus, and this, the L. floridus—however it is observed that all the Lichens, particularly most of the stringy Lichens, collected from different trees and shrubs, may have a mucilage extracted from

from them by water, which will addwer all the purpoles of a folution of gum.

In his Lordship's paper is given a statement of the benefit and advantages, which may ensue to individuals by the discovery of extracting gum from tree, or stringy Liebens, as a substitute for Gum Senegal, and other foreign gums, used for calico printing, preparing of ink, staining and manufacturing of paper, dressing and stiffening of silk, &c.

CCCLVIII.

LI'CHEN farina'ceus, ragged mealy Lichen.

C.

Very like the L. calicaris (L. fastigiatus of Acharius), and rather common on the branches of many trees; my specimens are furnished with a few shields.

CCCLIX.

LI'CHEN calica'ris, channeled Lichen.

C,

Abundantly on the rocks at Howth, Bullock, Dunleary, county Dublin; and many other places on the rocks, near the fea coasts.

It is reputed to dye a red colour equal to the famous Lichen Rocella, Dyer's Lichen, or Orchall, and which latter, as an article of trade, is considered as of very great consequence, for dyeing wool, or silk, any shade of purple, or crimson. For this purpose it is steeped in wolatile alkali. "Doctor Smith observes, that in times of scarcity Orchall has been sold for £ 1000 a ton!—Lightfoot in his Fl. Scot. asserts, that L. calicaris was formerly used instead of starch to make hair powder."

The same

CCCLX.

LI'CHEN prunas'tri, ragged boary Lichen.

C.

Rather common on the branches, and trunks of very old trees. "It has a remarkable property of imbibing and retaining odours, and is therefore the basis of many perfumed powders, Withering. It is reputed to dye yarn of a red colour.

CCCLXI.

LI'CHEN Islan'dicus, Iceland, or eryngo leaved Lichen. C.

Found in fmall quantities on Mushara mountain, Cork road to Killarney; and on the very summit of Mam Turc, Cunnamara.

It is confidered as a great restorative, and for some time back has been a fashionable remedy in consumptive complaints.

CCÇLXII.

LI'CHEN pulmona'rius, lungwort Lichen.

. Ċ.

Upon the trunks of old trees in many very shady woods.

"Used on the Continent not unsuccessfully in a decoction with milk to cure coughs. It is bitter, astringent, and mucilaginous, and promotes expectoration. Like many other Lichens, it dyes wool brown; some say of a deep orange." Eng. Bot. v. viii. 572.

CCCLXIII.

LI'CHEN cilia'ris, ciliated Lichen.

C.

Very common on different species of trees:

CCCLXIV.

LI'CHEN furfura'ceus, branny Lichen.

 \mathbf{C}

Found in a very withered state on the trunk of a very old tree, near Stream's town, Cunnamara, in very small quantities.—Were it not for the very accurate description, and excellent

excellent figure given of it in Eng. Bot. vol. 14. 984. I could never have afcertained my specimen.

CCCLXV.

LI'CHEN tenel'lus, delicate Lichen.

C.

Common on black thorn, and fometimes on flones.

CCCLXVI.

LI'CHEN fraxin'eus, afb Lichen.

C.

To be met with on trunks of many species of trees.

CCCLXVII.

LICHEN lete-vi'rens, bright green Lichen.

C.

Rather common in many parts of Ireland.—On ash trees, near Derry.

CCCLXVIII.

LI'CHEN capera'tus, wrinkled sulphur Lichen.

C

Very common on stones and rocks; particularly on granite at Howth, Bullock, Dalkey, &c.—It is used to dye wool of an orange colour.

CCCLXIX.

LI'CHEN scrobicula'tus, pitted Eichen.

C

Common on mossy dry rocks in the different mountains, Cunnamara; and rather sparingly on those about Killarney.

CCCLXX.

LI'CHEN plum'bous, lead-coloured frongy Lightn.

C

On the trunks of old trees near Rallyna. hinch, and Mam Turc mountain, Cunnamera.

Near Derry.

CCCLXXI.

LI'CHEN anthra'cinus,

 \mathbf{C} .

I forgot to mark the babitat.

CCCLXXII.

LI'CHEN polyrrhi'zos, singed Lichen, or dusky rock Lichen.

On rocks near the fummit of Purple mountain, Killarney; and on Mam Turc, Cunnamara.

CCCXXIII.

LI'CHEN pustula'tus, blistered Lichen.

C.

On a rock called the Man of War, but fparingly, lake of Killarney—a beautiful red colour may be prepared from it, according to Linneus. And it may be converted into an exceeding fine black paint, Withering.

CCCLXXIV.

LI'CHEN probos'cideus, fringed button Lichen.

C.

Some few specimens on quartzy rocks, in the ascent to Mac-Gilly Cuddy's reeks, Killarney.

CCCLXXV.

LI'CHEN minia'tus, gray cloudy Lichen.

C.

Mr. Bradbury obliged me with some specimens, found on lime-stone rocks, at Clopook, between Athy and Stradbally.

CCCLXXVI.

LI'CHEN perla'tus, pearly Lichen.

C.

The large stones near the salmon wier Ballynahinch, Cunnamara, are covered with this Lichen; and tho' I examined many specimens, I could not detect a single saucer.

CCCLXXVIL

LICHEN cani'mas, ash coloured ground liverwort.

C.

A very common Lichen on heaths, frony places, banks of ditches, &c.—This is the plant fo highly celebrated in the days of Doctor Mead, for the cure of canine madness, and formed one of the chief ingredients of his Pulvis antilyffus. The pretty variety γ of Hudson, I found on the island, immediately next Bilberry island, Lough Corib.

CCCLXXVIII.

LI'CHEN polydac'tylos, many fingered ground liverwort. C.

This has been confidered until lately as a variety of the former, and I think with some degree of justice—it is the var. 3 of Hudson. Common near the summit of Mam Turc, Cunnamara.—I fancy it may be considered as a scarce Lichen.

LICHEN

44.

CCCLXXIX.

LECHEN resupinatus, reversed Lichen.

C

Has a strong resemblance to Lichen caninus on the mostly roots of trees, on the mountains near Killarney.

CCCLXXX.

LI'CHEN fylvat'icus, wood Lichen.

C.

In great abundance on the banks of the shady ditches, road immediately leading from the Man of War to Rush, beyond the tark racks, county Dublin.

CCCLXXXI.

LI'CHEN horizonta'lis, brown horizontal Lichen.

C.

In the woody mountains, on rocks, near Killarney.

CCCLXXXII:

LI'CHEN nigres'cens, bat's wing Lichen.

C.

On the trunks of old ash, and sycamore, not unfrequent, in many swampy woods.

CCCLXXXIII.

LI'CHEN orbicula'ris, Necker 88.

C

I am indebted for the name of this Lichen to the very ingenious and industrious cryptogamist, Mr. Dickson, of Covent Garden, London, to whom I sent a specimen—he informs me it is a rare one.

On the bark of an old elm tree, to the S. W. of Shane's Castle wood, county Antrim.

CCCLXXXIV.

TREMEL'LA al'bida, whitish Tremella.

C.

On decayed branches of trees in woods, frequently.

TREMEL'LA

CCCLXXXV.

TREMEL'LA adna'ta, livid Tremella.

C.

Rocks on the sea shore.

CCCLXXXVI.

TREMEL'LA arbo'rea, witches butter.

C.

Common on decayed wood.

CCCLXXXVII.

TREMEL'LA mesenter'ica, plaited yellow Tremella.

C.

Found now and then on putrid wood, or bark of trees.

CCCLXXXVIII.

TREMEL'LA Nos'toc, ground Tremella, or flough ftar jelly Tremella. C.

On the fides of gravel-walks, after wet weather, and fometimes in pastures.

"This fingular production has given rife to many strange ideas. The vulgar suppose

S 3

o'the wisp. Some Italian philosophers have mistaken it for a gelatinous substance, which is nothing more than the remains of frozen frogs, as Dr. Withering has very satisfactorily shewn, and thence it was by chemical analysis proved to be an animal! Others have made a similar mistake respecting young aquatic snails." Eng. Bot. v. 7. 461. Smith's tour on the Continent, v. 3. 150.—The ancient alchemists termed this Tremella the flower of heaven, and slattered themselves with the hopes of its proving an universal menstruum, Fl. Scot. v. 2. 199.

CCCLXXXIX.

FU'CUS nodo'sus, knobbed Fucus, or sea whistles.

Very common on all our rocky shores. The oval bladders on this sucus crack with some degree of report, when trodden on. Oysters are covered with it, to keep them alive and moist.

CCCLXXXX.

FU'CUS vesiculo'sus, bladder Fucus, or common fea wrack.

Rather more common than the former; growing on the sea rocks, or thrown on the shore.

flore. It is subject to many varieties, most of which are to be found on our shores. E. vesiculosus is much used as a manure, and, by burning, it is converted into that fubflance called kelp, fo valuable in the foap and glass business. The medicine, called Vegetable Æthiops, is prepared by calcining this plant in the open air. Much more could be mentioned of its value, did the present publication admit of it; but in the second volume of Fl. Scot. 905. many interesting particulars of this sea wrack are to be met with. One however of much consequence I shall notice. "In the islands of Jura and Skye, it frequently serves as a winter food for cattle, which regularly come down to the shores at the recess of the tides to feek for it."

A curious circumstance attends this fucus; if its leaves receive any injury or fracture, if the plant be in a vigorous state, abundance of young leaves are thrown out from the injured part.—If even a small aperture be made in the middle of a leaf, a new one arises from either side of it, Withering.

In the Nereis Britannica of Mr. Stackhouse, a very interesting and scientific analysis of this fucus occurs; and, as I believe but very sew are in possession of that gentleman's valuable able work in this kingdom, I feel it must afford much gratification to the philosophising chemist, to state the result of this curious and beautiful analysis of F. vessculosus.

Five hundred grains being exposed to a red heat for three hours, in a glass coated retort, connected with a receiver, and a pneumatico-chymical apparatus; the following substances were obtained.

				Frains.
Water,	-	-	•	138
Ammoniac,	1	-	-	90
Charcoal,		-	-	86
Empyreumatic	c oil,	_	•	54
Soda, -		-	-	18, 5
Magnesia,	,	•	•	14
Silex,	•		•	i, 5
Iron,	•		-	0, 3
Muriatic acid,)	-	-	6, 5
Sulphuric acid	l,	•	• .	4, 5
Sulphur,	` -	•	•	4, 5
Carbonic acid	gass,	1377		60
Oxygen gass,		39		13
Hydro-carbona	te ga	fs, 81 🗲	cubic inches	2
Azotic gass,	-	18		3
		267		10.5
,		207	Lofs,	495, 8
			LUIS,	4, 2
			•	500

FU'CUS

CCCLXXXXI.

FU'CUS filiquo'sus, podded Fucus.

Not fo very common as the two former; however our shores, and sea rocks afford it pretty abundantly.

CCCLXXXXII.

FU'CUS kalifor'mis, faltwort Fucus.

A few specimens of this new species of Fucus, so accurately sigured in the 9th vol. Eng. Bot. 640. I found on the beach at Aughris, Cunnamara, the most western point, I believe, of Ireland.

CCCLXXXXIII.

FU'CUS ferra'tus, ferrated Fucus, ory wrack

Very common on all our shores, and varies much in size; sometimes it occurs above two feet high. "Baster observes, that thisp lant it preferred by the Dutch sishermen, for packing up their lobsters, to F. vesiculosus, from which so much more mucus exudes, that is apt to corrupt them," Turner's Synopsis of British Fuci. vol. 1. 1157. Lightfoot in his Fl. Scot. v. 2. 903, takes notice of this circumfance.

stance. "At Cromer in Norfolk, it is used for the same purpose; and some sailors there, whom Mr. Wigg and Mr. Turner once saw busily engaged in separating those sish from each other with it, when asked why they employed so much trouble on the matter, replied, "that it was not only to keep them moist, but to hinder them from sighting, which they would do without a preventative." It is supposed to afford less alkaline salt, than F. vessculosus.

CCCLXXXXIV.

FU'CUS fanguin'eus, red dock-leaved Fucus.

Pretty commonly cast between the rocks on the shore at Custrower bay, Aughris, and Renvi, Cunnamara. I found a few specimens on the shore near Bray head.

CCCLXXXXV.

FU'CUS ru'bens, red oak-leaved serrated Fucus.

Our fea coasts abound with this species of fucus. The very correct figure given of it in Stackhouse's Nereis Britannica t. 7. must put it beyond every possibility of mistake hereaster. But the F. sinussus of Eng. Bot. v. 12. 822, as referring to the F. rubens of Stackhouse, must, I humbly conceive, cause some confusion; the

two plates being very diffimilar.—However highly I respect, esteem, and admire the author of Eng. Bot. I cannot avoid taking this liberty, which I hope he will pardon. Our variety I take to be the γ of Turner's Synopsis, "quercifolius, laciniis rotundatis, marginibus subnudis," and the English name oak-leaved, I consider as truly characteristick.

CCCLXXXXVI.

FU'CUS Hypoglos'fum,

This very elegant and rare species of sucus, so accurately described, and depicted in the 2d vol. Linn. Trans. 30. t. 7, was found amongst other rejectamenta between the rocks at Aughris, Cunnamara. I could procure but a few specimens, which at first sight I considered as varieties of Fucus sanguineus.

CCCLXXXXVII.

FU'CUS ala'tus, winged Fucus.

In the waters between the rocks, left by the recess of the tides, rather common. I have some specimens attached to F. vesiculosus.

CCCLXXXXVIII.

FU'CUS sacchari'nus, sweet Fucus, or sea belt.

Upon our sea coasts very common—I have measured a plant of this leathery fucus, above three feet long. "It derives its name from the circumstance of its leaves, after they are dried, if not fufficiently washed and kept from the air. being often covered with a whitish efflorescence fimilar in appearance to fugar, and which, if flightly applied, leaves upon the palate a sweetish taste, but, as Gmelin has observed, is nothing more than falt, and, if taken in too great a quantity, has the effect of irritating the The same author has observed on the authority of Pallas, that in some parts of the sea coasts of England it is cooked, and eaten as a pot-herb; and that the inhabitants of Iceland boil it in milk, and make it into a pottage; or sleep it in fresh water, expose it in a dry funny place till it is hard, then put it up in wooden vessels till in time it acquires a white colour, and is as fweet as fugar, when they eat it with butter." Turner's Synop. v. 2. 206. Similar circumstances are recorded of it in Lightfoot's Fl. Scot. v. 2. 942, with this addition, "that cattle feed,

and get fat upon this sea wrack, both in its recent and dry state, but their slesh acquires a bad slavour." Mr. Stackhouse observes that F. saccharinus, when dry, and suspended in an airy place, forms an admirable hygrometer, and preserves its qualities for years.

CCCLXXXXIX.

FU'CUS digitatus, fingered Fucus, fea girdle, hangers.

Plentifully on almost all our coasts. "Bishop Gunner observes, that in Nordland the stems and fronds of young specimens are boiled and given to cattle, and that the former are fometimes eaten by men; that the dried stalks, in Lofoten and Vesteraalen, are employed for fuel, and in a putrid state used, as in the United Kingdom to manure the fields." Turner.— Every species of fuci may be used with advantage as a manure for land. Mr. Stackhouse fays, that this fucus forms an effential article of the husbandman's attention after a storm, being a very bulky plant. He observes, (and I know it to be the fact) that the fize of fome of the larger stalks is equal to that of a walking stick, and as incorruptible as a cabbage stump.

Five

Five hundred grains of this fucus were treated exactly in the same way, and with the same degree of heat, as the F. vesiculosus, and yielded as follows:

•			•
			Grains.
Water,	•	-	427
Charcoal,	-	•	14
Soda, -	•	-	10
Muriatic acid, w	rith a fmall huric acid,		} - 9
Empyreumatic o	oil, -	•	- 6
Magnesia,	•	-	3
Silex and Iron,		• ·	0, 5
Sulphur,	•	-	1, 5
Azotic gas,	45, 5)	14, 5
Oxygen gas,	23,	cubic in	ches . 7, 5
Carbonic acid ga	is, 11,)	4, 5
	82, 5	Loss	497, 5 2, 5
•			500

The difference of the result under the retort of the two common species, the one fucculent, the other coriaceous, must appear surprizing—the present sucus containing 5-6th parts of water; and the other the F. vesiculosus not quite 1-4th part, which must arise from the great

great quantity of mucus this succulent species (F. digitatus) contained within its external coats. This likewise contained only 82, 5 cubic inches of different gases, while the F. vesiculosus yielded 267. The soda in F. digitatus was little more than half the quantity of what was sound in the F. vesiculosus, and the empyreumatic oil, more than 1-9th, or 6 to 54.

From this statement it clearly appears to Mr. Stackhouse that, contrary to the generally received opinion among farmers, the coriaceous species of fuci are preserable as manure to the succulent species.

CCCC. '

FU'CUS polyschi'des, great furbelowed hangers.

Nearly as common as the former, and with which it has been frequently confounded. The very admirable figure in Nereis Brit. t. 4. of this fucus, must remove every possibility of doubt, of its being a very distinct species, when contrasted with the F. digitatus, t. 3. of the same work. I have adopted the trivial name polyschides, in preference to bulbosus, tho' the latter term has been sanctioned by a Turper.

Lightfoot in Fl. Scot. observes, that this fucus has sometimes grown so large, that a single specimen has been a load for a man's shoulders;

and Mr. Stackhouse informed Dr. Withering, that he has known the plant to weigh from twenty to thirty pounds or more. In the Scilly islands, and on some spots in the west of Cornwall, this species, with the other large succulent ones, are burnt in considerable quantities to make kelp."

Dr. Goodenough, and Mr. Woodward, in their observations on British Fuci, Linn. Trans. v. 3. 155. mention, that this and the preceding species grow to a vast size, from one to sive yards. I never could detect it of the latter size on our sea shores.

CCCCI.

FU'CUS canaliculátus, channelled Fucus.

Rather common on the rocks in various parts of our coast.

CCCCII.

FU'CUS crispus, buckshorn Fucus.

I have adopted the trivial name given to this fucus by Mr. Turner, in preference to that so commonly made use of, ceranoides; as he has most satisfactorily proved, that the F. ceranoides of Linnæus is quite a different plant.

I wish I could be as well satisfied as to the varieties of this species, noticed by this ingenious

nious gentleman, nine in number; and though I have feveral by me, which I confider as such, I will not at present hazard an opinion, but barely state, that the very common varieties are frequently to be met with on our rocky shores.

CCCCIII.

FU'CUS phylli'tis, heart's-tongue Fucus.

Found in pools of shallow water, on the coast, near the Giant's causeway.

The specimens, which I have been fortunate enough to meet with, I consider as the true variety β of Turner's Synopsis—fronde apicem versus dilatatá sub-cuneiformi"—the Fucus phyllitidis folio of Ray. The stem is short, round, and horny; and the roots are sibrous, woody, and creeping; agreeing exactly with Mr. Stackhouse's description of these parts.

CCCCIV.

FU'CUS edúlis, eatable Fucus.

Found in small quantities on the coast, amongst the rocks, beyond Bray head.

My specimens are of a deep and opaque blood-red, and about the size and cuneiform shape of the smaller fronds of Mr. Stackhouse's sigure, Ner. Brit. t. 12.

"It is eatable when raw, which is hardly the case with some other suci. It is also eaten after being pinched with hot irons, and then tastes like roasted oysters."

In the islands of the Archipelago, the natives have a curious way of dressing sish with this fucus: "they take slices of sish, and slew them with crow garlic, chopt small; when tender, some lard, or any animal sat, is added; and, lastly, a handful or more of this sucus, called by them Marvei, is put on, which not only gives a most beautiful purple tinge to the ragout, but dissolves, and thickens the sauce so much, that, when cold, the jelly is strong enough to support a spoon, or any other thing placed in a perpendicular direction."—Gmelin. Hist. Fuc. 190. Ner. Brit. 59.

"But the most surprising quality of this plant, and one that will probably render it of service in dyeing, was discovered by Mr. Stackhouse by accident. Having placed some of the leaves to macerate in sea water, in order to procure seeds from it, he perceived on the second day a faint ruby tint, very different from the colour of the plant, which is a dull red, inclining to chocolate colour. Being surprised at this, he continued the maceration, and the tint grew more vivid, till at last it equalled the strongest insusion of cochineal. This liquid was mucilaginous, and had a remarkable

markable property of being of a changeable colour, as it appeared a bright ruby, when held to the light, and a muddy faffron, when viewed in a contrary direction. He adds, that a chemical friend of his (the Rev. W. Gregor) affured him, that he procured a fine lake from an infusion of it, by means of alum."—Ner. Brit. p. 58. Mr. Turner observes, that the quality of yielding by maceration a fine colour is common also to many other algae, and in the highest degree observable in Conferva setacea, which, after it has been kept only a very short time in fresh water, gives out nearly the whole of the fine lake tinted fluid, with which its tubes are filled, and remains an almost colourless, diaphanous membrane."

When moistened after having been dried, this species of sucus more particularly exhales a violet scent. Eng. Bot. v. 19, 1307.

CCCCV.

FU'CUS dentátus, indented Fucus.

Found near the Giant's causeway, amongst rejectamenta thrown in from the sea; and between Balbriggen and Skerries, county Dublin.

The urceolate capsules, noticed by Mr. Turner in his Synopsis of British Fuci, Introduction xxv, appear to be very accurately figured in the last fasciculus of Mr. Stackhouse's Nereis

Britannica,

Britannica, tab. 15; and in which plate a figure of the plant itself is well represented.

CCCCVI.

FU'CUS lacerátus, endive-leaved Fucus.

Is pretty common on our sea shores, on rocks and rejectamenta thrown on the shore.

Except as to colour, the figure in Eng. Bot. v. 15. 1067, is very characteristic of this plant, as it occurs on our shores.

CCCCVII.

FU'CUS laciniátus, jagged Fucus.

I by no means confider this as a variety of the former, differing in many respects from it. See Eng. Bot. v. 15. 1068.

Found many specimens on the coast, near the Giant's causeway.

CCCCVIII.

FU'CUS ciliátus, ciliated Fucus.

Not uncommon on our coasts, Rush, Balbriggan, Howth, Bullock, &c. county Dublin. "This fucus resembles F. faccharinus, in the property whence that species derives its name; and, if dried, without sufficient care being taken to wash out all saline particles, will always

ways

ways be covered with a similar whitish efflorescence."—Turner.

CCCCIX.

FU'CUS pinnatifidus, pinnatifid Fucus.

Found covering some rocks in the sea, on the coast, near Balbriggan and Rush. My specimen is the var, a. Ner. Brit. t. 11. I could not discover that acrid and unpleasant taste, and peculiar smell, which are attributed to it; perhaps I did not put it to the test, in a sufficiently recent state.

CCCCX.

FU'CUS filum, thread Fucus, or sea laces.

Common on all our sea coasts. Mr. Stackhouse says, that he has measured it seventeen seet long. I have met with specimens very long indeed. It is worthy of remark, that the common people, who conduct the kelp kilns on the Cunnamara coast, a great kelp shore, observe, that the kilns, which are more abundantly supplied with this sucus, yield the greatest quantity of kelp, and of a better quality. A series of comparative experiments, instituted to ascertain the relative value of each species of our common sea wrack, as to their individual produce of alkaline salt, would be highly

highly interesting, and worthy of the attention of the Dublin Society.

CCCCXI.

FU'CUS bifurcatus, bifurcated Fucus.

This the F. tuberculatus of Eng. Bat. v. II. 726, was found closely adhering to the rocks, by rather a broad base, at the Giant's causeway; and, if I do not mistake, on the top of the basaltic columns in the sea, immediately at the end of the causeway.

CCCCXII.

FU'CUS lumbricális, worm-like Fucus.

Very common upon almost all our sea coasts. It is the F. fastigiatus of Hudson, Lightfoot, and Withering.

CCCCXIII.

FU'CUS sedoides, stone crop Fucus.

I have adopted Mr. Stackhouse's trivial name fedoides, because his description accords with my specimens in many particulars; I wish I could say as much for his figure. But on carefully looking over Gmelin. Hist. Fuc. there are none of his figures, by any possibility of fancy, which bear the least resemblance to the specimens

specimens in my possession, but that in tab. 18. fig. 4.

Found on the shore, within about a mile of the Giant's causeway.

CCCCXIV.

FU'CUS aculeátus, prickly Fucus.

Rather common upon our fea shores, Rush, Balbriggen, Howth, &c. county Dublin.

CCCCXV.

FU'CUS purpurascens, purplish Fucus.

Were it not for the subglobose tubercles innate in the ramuli, I should have been tempted to set my specimens down as the F. asparagoides of Eng. Bot. v. 8. t. 571. and to which they bear a very strong resemblance indeed. Found on the coast, near Bray head.

CCCCXVI.

FU'CUS plicatus, matted Fucus.

Rather common on our sea shores, Rush, Balbriggen, Howth, &c. county Dublin.

CCCCXVII.

FU'CUS confervoídes, conferva-like Fucus.

Frequently on our sea shores.

FU'CUS

CCCCXVIII.

FU'CUS córneus, borny Fucus.

All the varieties, noticed in Mr. Turner's Synopsis of British Fuci, are to be met with on the western coast of Ireland; indeed, I may again add, the very western point, Aughris, Cunnamara. The variety β nereideus of Lightfoot, sparingly between the rocks, on the shore at Rush, county Dublin, amongst the rejectamenta thrown in from the sea.

CCCCXIX.

FU'CUS coccinéus, scarlet Fucus.

Very common on all our sea shores. I found this beautiful fucus, in a full and perfect state of fructification, on the shore at Balbriggen, in September.

CCCCXX.

UL'VA pavónia, striated laver.

This elegant laver, or Turkey feather, as it is fometimes called, so very correctly figured in Ellis's Corallines, t. 33. c. was found sticking to the sea rocks, near Aughris, Cunnamara. In the 147th n. v. 18. Eng. Bot. 1276, lately published, a very good figure of U. pavenia occurs, but

but the colouring of the stripes is not so brilliant as it appeared in the specimens I met with.

CCCCXXI.

UL'VA lactúca, oyster green, green sloke.

On our sea shores, and salt water ditches, common.

The oyster green is frequently eaten in the same manner as the following, the true sloke.

CCCCXXII.

UL'VA umbilicális, navel laver, or floke.

Upon the sea rocks, and shores, frequent. This is that substance, stewed with a little water, which is sold about our streets by the name of sloke.

CCCCXXIII.

UL'VA palmáta, palmated, or sweet laver.

Rather common on fea rocks, stones, and fea shores.

The various specimens I have met with, induce me to follow Withering's example, by calling it an ulva. In the 19th vol. of English Botany, 1306, it occurs, under the name of Fucus palmatus, palmate fucus, or dulse. The author observes, that it is sold in the markets

at Edinburgh, and eaten raw an hour or two before dinner.

The U. palmata is what the Irish call Dulish, the Scotch Dills, and the English Dulls, or Dulse, and, after being soaked in fresh water, is eaten dried. "Bishop Gunner states, in his Flora Norvegica, that this plant, which is supposed to be his Fucus ovinus, or caprinus, is employed in the fattening sheep and goats, who seek it with much avidity, and betake themselves in great numbers eagerly to the sea shore, at the resux of the tide, to obtain this pleasant plant."—Turner Syn. v. 1. 180.

CCCCXXIV.

UL'VA compréssa, thread, and tape laver.

All the varieties, so very accurately described in Lightsoot's Fl. Scot., and correctly figured in Hist. Mus. Dillen. t. 9, f. 8. A. B. C. D. E. and t. 10. f. 8. F. G., are to be found common on our sea shores, adhering to various substances. Nay, agreeable to the great Linnæus's observations, on thatched houses, and not within the spray of the sea.

CCCCXXV.

UI.'VA intestinális, gut laver, or sea chitterling.

Frequently to be met with in stagnant pools, by the sea side. The broad variety, resembling the the mesentery noticed by Dillenius, Hist. Mus. 47., I found on the strand at Balbriggen.

CCCCXXVI.

CONFER'VA rivuláris, crow filk, bairy river weed, common floating filk Conferva. A. L. F.

Common in gently flowing brooks, and rivers.

CCCCXXVII.

CONFER'VA fontinális, fpring Conferva, small byssus like Conferva. A. L. F.

Grows in tufts, frequently forming a spongy mat, on the sides of springs and fountains, of various colours, rather common.

CCCCXXVIII.

CONFER'VA bullósa, ditch, or bubbled cotton Conferva. A. P.

Rather common in most stagmant and putrid waters.

So early as the year 1741, the laborious and accurate Dillenius, in his admirable work, the Hist. Musc. 18. observes, that this conferva, properly collected and dried, would answer as tow or cotton for a variety of purposes. Lightfoot, in 1777, says, that he saw a coarse kind of paper made of it at Edinburgh.

CCCCXXIX.

CONFER'VA littorális, soft long sea Conferva.

Frequently on rocks and stones in the sea, and sea water pools, some inches long, of a pale green colour.

CCCCXXX.

CONFER'VA tomentósa, rusty flock sea Conferva.

On the Cunnamara coast common, adhering to the sea rocks. On the basaltic pillars in the sea, Giant's causeway.

CCCCXXXI.

CONFER'VA æruginósa, sea green Conferva.

On the rocks, near the Giant's causeway; and Aughris, Cunnamara, adhering to fuci.

CCCCXXXII.

CONFER'VA scopária, brush Conferva, brown Conferva, feathered sea Conferva.

I don't consider it as a common species, having found it but sparingly, on the shore, near the Giant's causeway; and now and then on the coasts near Dublin. As Dillenius observes, serves, Merrei not inaptly likens it to a fox's tail.

CCCCXXXIII.

CONFER'VA capilláris, marsh thread, or thread Conferva.

Frequently in the marshy ditches, near the sea side.

CCCCXXXIV.

CONFER'VA fucícola.

To be met with frequently on Fucus nodosus; as Major Velley, the first discoverer and describer of it, has observed in his COLOURED FIGURES OF MARINE PLANTS.

CCCCXXXV.

CONFER'VA setácea, bristly Conferva.

Found some specimens of this delicate conferva, between the rocks, near Bullock, Skerries, and Rush, county Dublin.

This is the conferva, which, Mr. Turner obferves, yields a fine lake-coloured fluid, on being macerated in fresh water for a short time; and which circumstance I more particularly noticed before, at page 154, when speaking of Fucus edulis.

I could

I could not perceive the very intolerable odour, which Major Velley fays this species of conferva emits, when recent.

CCCCXXXVI.

CONFER'VA polymórpha, black tufted Conferva.

On our rocky shores, generally adhering to some of the larger suci. It is by no means confined to F. nodosus and F. vesiculosus.

CCCCXXXVII.

CONFER'VA rubra, red Conferva.

Adhering to fuci, very common on our fea shores.

CCCCXXXVIII.

CONFER'VA purpuras'cens, purple Conferva.

On rocks, and sticking to fuci, nearly as common as the former.

CCCCXXXIX.

CONFER'VA nodulósa, knotted Conferva.

I found many beautiful specimens on the, shore, near the Giant's causeway. I think it is a very probable, that the C. rubra, C. purpurascens,

rascens, and C. nodulosa, will turn out to be the same.

CCCCXL.

CONFER'VA diaphána, red dotted Conferva.

This very delicate and beautiful species of Conferva, I found very sparingly in the basons of sea water, between the rocks on the coast, near Balbriggen.

CCCCXLI.

CONFER'VA plumósa, red feathered Conferva.

I was for some time puzzled to know what species of conferva to refer this elegant plant to, but, on looking over Lightsoot, I found his description to correspond so exactly with my specimen, that I have ventured to set it down, as the plumosa of his Flora Scotica.

On the shore, at Aughris, Cunnamara.

CCCCXLII.

CONFER'VA coccinea, scarlet Conferva.

Very common on our shores.

I cannot consider this as the C. plumosa of Lightfoot; and, by doing so, I know I differ from very high authority; but the specimen of what I consider the plumosa of Lightfoot, which I found on the coast of Cunnamara, differing

in fo many particulars from the C. cecoinea, will, I trust, be my justification.

This fucus, or rather conferva, on account of its beauty and brilliant bright red colour, and minute divisions of its foliage, is the species, which ladies employ to mimic landscapes.

CCCCXLIII.

MERU'LIUS umbelliferus, Bolton 39.

This very delicate and minute mushroom is very abundant amongst moss and decayed vegetable substances, in Bracken's town wood, county Dublin, in August,

CCCCXLIV.

MERU'LIUS androsáceus, Sowerby 94. black ftalked agaric. C.

Near the grotto, in Luttrell's-town wood, county Dublin, on rotten oak leaves, in July.

CCCCXLV.

MERU'LIUS Cantharel'lus, Sowerby 46. cantarelle agaric. C.

Common in our woods—Luttrell's-town, Santry, Deer park, county Dublin, &c. in September.

It is observed by Withering, that the lovers of mushrooms may eat this with safety, but it

is more tough, and less highly flavoured, than either the Ag. orcades, or Ag. campestris.

CCCCXLVI.

MERUL'IUS squamûla, Sowerby 93.

On decayed ivy leaves, in the wood of St. Catharine's, county Dublin, in April.

CCCCXLVII.

AGA'RICUS ebur'neus, Sowerby 32.

C.

Amongst the grass, in the pasture ground, near Santry wood, county Dublin, in August.

This agaric or mushroom, which varies much in size, has in every state the appearance, and the feel of ivory. Withering.

CCCCXLVIII.

AGA'RICUS Listéri, Sowerby 104.

Found in the fouth woods of the Deer park, county Dublin, in August. I have adopted Withering's trivial name, instead of piperatus, by which this mushroom has been commonly known, as he has convinced me, that the A. piperatus of Linnæus is a different plant. It abounds with a milky juice, which is hot and acrid, and perhaps may be considered amongst the most suspicious of the whole tribe.

CCCCXLIX.

AGA'RICUS sca'ber, Sowerby 207.

C.

Growing in clusters, of a tawny claret colour, in a tan bed, at the Botanical garden, Glasnevin, June 1803.

CCCCL.

AGA'RICUS casta'neus, brown agaric, Bolton. 22.

In Bracken's-town wood, county Dublin, common in May.

CCCÇLI.

AGA'RICUS trilo'bus, Bolton 38.—A. badius, Withering. C.

In a pot, with turf-mold and fand, in a tan bed of one of the hot houses at the Botanical garden, Glasnevin, June 1803.

CCCCLII.

AGA'RICUS lacif'luus, Sowerby 204.

C.

In the pine groves, Moore Abbey, Marquis of Drögheda's, county Kildare—August. The milky

milky juice, with which it abounds, is commonly mild, but leaves a biting taste in the throat.

CCCCLIII.

AGA'RICUS amethys'tinus, violet agaric.

Sowerby 187. C.

In the shady sloping ground to the North, at the Botanic garden, Glasnevin.

CCCCLIV.

AGA'RICUS cras'fipes, Sowerby 129.

At the base of old oaks, Bracken's-town wood, county Dublin, July.

CCCCLV.

AGA'RICUS integer, var. 6. Withering. C.

This, the A. luteus of Hudson, is to be found growing under trees, to the east of Santry wood, county Dublin; September.

CCCCLVI.

AGA'RICUS elephan'tinus, Sowery 36.

C.

Bracken's-town wood, county Dublin; October.

CCCCLVII.

AGA'RICUS tortilis, Bolton 41. a.

Very common in kitchen gardens, under the shade of large leaves.

CCCCLVIII.

AGA'RICUS limacinus, Sowerby 7.

C.

Rather common in hilly aspects; in October.

CCCCLIX.

AGA'RICUS creta'ceus, Sowerby 2.

۲.

Abandantly in the bark beds of the Botanical garden, Glasnevin, in August,—when in a decaying state, it emits a very setid odour. I have no doubt of its being the A. conserus of Bolton.

CCCCLX.

AGA'RICUS or'cades, Sowerby 127.

じ

Some pastures sields and groves abound with this mushroom, in form of what are called fairy rings.

Withering

Withering observes, that his 3d variety is not the Mouceron of the French, though often used in France instead of that; and as it may be procured plentifully, and its fine slavour will probably soon introduce it to our tables, particularly in catsups and in powder, he takes much pains to guard us against errors, which may be committed by those who are intrusted to gather it. See Withering ed. 4. vol. 4. 218,219.

CCCCLXI.

AGA'RICUS cla'vus, Bolton 39.

Found amongst moss in Santry wood, county Dublin, July.

CCCCLXII.

AGA'RICUS campe'stris, common mushroom; Sowerby 305. C.

Common in pastures, which have not been ploughed for some years.

This is the mushroom in so much demand for the table, and which varies so much in size, and sometimes in colour—the sield plants are certainly more delicious and tender, than those raised in hot beds.

CCCCLXIII.

AGA'RICUS fulcatus, velvet stalked agaric.

Bolton 135. C.

This, the A. velutipes of Bolton, is very common, growing in clusters, on stumps of rotton wood.

CCCCLXIV.

AGA'RICUS lu'teus, yellow cottony agaric.

Sowerby 2. C.

In the bark beds at Glasnevin, with the A. cretaceus, and which, (agreeing with Mr. Sowerby), I consider only as a variety of A. cretaceus, or his A. cepæstipes.

CCCCLXV.

AGA'RICUS auran'tius, orange agaric.

C.

Common in elevated dry and barren pattures, in October. The figures of Curtis and Bolton appear to be very diffimilar, though referred to as the fame by Withering. Our plant is the one figured by Bolton, not but I have met with that, so admirably delineated in the Flora Londinensis, rather common.

CCCCLXVI.

AGA'RICUS cinnamo'meus, Sowerby 205.

To the fouth of Bracken's-town wood; in May.

CCCCLXVII.

AGA'RICUS fimipu'tris, var. 2. Withering.

Frequently in the grass, in pasture fields in September.

CCCCLXVIII.

AGA'RICUS fascicula'ris, bundled agaric. Bolton.
29. C.

Amongst old timber in wood-yards, rather common; in October.

CCCCLXIX.

AGA'RICUS turbinátus, var. 2 Withering.

This, the A. fuliginosus of Hudson, growing in numbers together, under the trees, at Bracken's-town wood; in August.

CCCCLXX.

AGA'RICUS cylindri'cus, Sowerby 189-egg agaric. C.

I have met with this mushroom from May to October, in a variety of grounds. Very common to the north, near the walks, amongst the garden sweepings, botanic garden, Glasnevin. A young plant put into water, and covered with a glass bell, grew three inches and a quarter in twelve hours, Withering.

CCCCLXXI.

AGA'RICUS cinereus, Bolton 20-mourning ageric. C.

In well manured meadows, and on dunghills, rather common in the month of July.

COCCLXXII.

AGA'RICUS plica'tilis, plaited agaric. Fl. Lond.

To be met with frequently growing on grafs plots, in July.

CCCCLXXIII.

AGA'RICUS campanula'tus, Withering.

Both the varieties in Santry wood, in September—the fecond, on the stumps of old rotten trees to the east of the wood.

CCCCLXXIV.

FISTULI'NA hepa'tica, Sowerby 58.

The boletus hepaticus, or *liver boletus*, is now and then to be met with on perishing trunks of trees, particularly on oak, and fometimes in the hollows of living trees very late in fummer, in the woods of the Phœnix park.

Bolton says, it is of the esculent kind, and that it tastes like lamb's slesh, but how far it is to be trusted he is doubtful, and Sowerby observes that it tastes like our common eatable mushroom, and some reckon it nearly as good. It takes its name from its resemblance to a liver, and is replete with a blood-coloured sluid.

CCCCLXXV.

BOLE'TUS bovi'nus, Sowerby 175.

This, the brown boletus, is pretty common in Bracken's town wood, and many other woods in the county of Dublin, in August.

Sowerby observes, that it is a favourite food with the Russians and Poles, who have many ways of cooking and pickling it, and that he had got some from thence pickled, and highly spiced.

CCCCLXXVI.

BOLE'TUS fquamo'sus, fcaly Boletus. Sowerby 266. C.

Frequently to be met with of various fizes, growing in a pendulous position, and many together on the sides of various species of trees, near their base. I met with a specimen in Luttrel's-town wood, county Dublin, in the month of July, measuring from side to side, in the broadest part, above twenty inches, and from the root to the extreme edge nearly as many more.

CCCLXXVII.

BOLE'TUS fubero'sus, white cork Boletus.

Bolton 162.—Sowerby 288. C.

On stumps of trees rather common, continuing frequently the whole year; stumps of ash trees to the north of the botanical garden, Glasnevin.

CCCCLXXVIII.

BOLE'TUS versicolor, Bolton 81--Sowerby 229-ftriped, or variegated Boletus. C.

To be found in imbricated zoned clusters adhering to decayed wood, or bark, generally the whole year, in various situations.

CCCCLXXIX.

BOLE'TUS fulphu'reus, var. 2. Withering.— Sowerby 135. C.

This the B. tenax, or tough boletus of Bolton, is by no means common. I found it fparingly on the fide of an old elm tree, to the fouth of Bracken's town wood, and on the fame kind of tree behind my former house in Capel-street, Dublin, in a N. E. exposure.

CCCCLXXX.

BOLE'TUS ignia'rius, Sowerby 132.

C

This, the touchwood boletus, is to be found now and then on the trunks of old trees, in the woods of the Deer park, and Bracken's-town, county Dublin.

Lightfoot observes that, when the upper rind is peeled off this boletus, and the remainder pounded and boiled with saltpetre, it makes an excellent touchwood; and in Franconia they beat the inner substance into the form of leather, and sew it together for garments.

It is from this boletus, the Agaric, formerly fo celebrated for stopping hermorrhages, is made, but which the chirurgical dexterity of this day has in a great measure superseded the use of.

. CCCCLXXXI.

BOLE'ΓUS oliva'ceus, Withering, 312.

C.

This boletus is very correctly figured and described in Bolton 84; and I consider the term, olivaceous, much more expressive of our specimens, than that of luteus by Hudson, Lightfoot, Bolton, &c.

Found

Found to the fouth of Bracken's-town wood, in the month of August.

CCCCLXXXII.

HELVEL'LAmit'ra, curled Helvella. Sowerby 39.

In a wood to the west of the Phoenix park, near the private gate leading to Luttrel's-town demesses, in April; and in a wood, to the east, Luttrel's-town, in Autumn.

CCCCLXXXIII.

AURICULA'RIA ferrugi'nea, Sowerby 26.

Rather common, adhering to the bark of the dead branches, and stumps of trees near the ground, for a good part of the year.

CCCCLXXXIV.

NIDULA'RIA companula'ta, Withering.

Some beautiful specimens of this plant, the Peziza lentifera, or lentil Peziza of Bolton, 102, Nidularia lentifera of Sowerby 28, were sent to me by Mr. Pennick, Bellview, county Wicklow; which he found in the month of July, growing in the open air, and in a peach

peach house, at a root of a vine in a pot, under the shade of a peach tree.

CCCCLXXXV.

PEZI'ZA cer'ea, Sowerby Fung. t. 3.
C.

On tan beds, in the hot-houses of the botanical garden, Glasnevin; July 1803.

CCCCXXXVI.

PHAL'LUS esculen'tus, Sowerby 51.

 \mathbf{C}

The esculent morel, is rather a scarce mushroom with us; and I was agreeably surprised to find it growing in a perfectly wild state under the hedges, at the Botanic garden, Glasnevin, April 1801.

It is much esteemed, either fresh or dried, in savoury dishes, and will keep in the latter state for many years.

CCCCLXXXVII.

PHAL'LUS impudi'cus, stinking morel. Fl. Lond. 194.—Bolton 92.—Sowerby 329. C.

Common in the woods at Castletown, Leixlip, county Dublin, under the hedges; and now and then in the woods of the Phænix park. It has occurred two or three times at the northern ends of the beds, in the herbaceous division of the botanic garden, Glasnevin.

It is readily nosed by its intolerably fetid smell, in wet summer months, in its bursting state. Doctor Withering observes, that those, who have courage to smell it closely, will find it much less disagreeable than at a distance, for it then seems to have a slight pungency like that of volatile salts; its odour soon pervades a whole house.

CCCLXXXVIII.

TRICHIA nuda, Sowerby 50. Bolton 93. 1. CLATHRUS nudus. C.

On the stump of an old elm tree, in the shade, near the sloping ground to the north of the botanical garden, Glasnevin. June 1803.

CCCCLXXXIX.

CLA'VARIA hypox'ylon. Sowerby, 55.

The flat borned clavaria is very common upon rotten stumps of trees, assuming the various forms noticed by Bolton, 129. On very old rotten wood, &c. at the foot of the shady sloping ground to the north of the botanic garden, Glasnevin, frequent in November.

LYCOPER'DON

CCCCXC.

LYCOPER'DON Próteus. Withering. C.

The many varieties of Lycoperdon bovista, or common puff ball, so very aptly termed by Dr. Withering Proteus, (for it assumes a variety of forms, and appearances,) are to be met with pretty commonly in pastures, woods, and meadows.

Many authors have noticed the narcotic quality of the very large variety of this lycoperdon, and on that account it has been used fometimes to take a hive without destroying the bees; by pressing and drying it in an oven, it forms a kind of tinder, the smoke of which intoxicates these industrious creatures. Lightfoot says, that in Italy specimens have been found, weighing twenty-sive pounds, and measuring two yards in circumference. Withering says, that it is used to carry suel in from a distance. Whether it has a styptic quality, more than any other dense spongy substance, is much to be doubted?

CCCCXCI.

LYCO'PERDON globósum. Bolton 118.

This, the globe puff ball of Bolton, is as common as the former, and I have my doubts, whether it should not be considered as a variety of the common puff ball? Bolton says it is never to be found in woods, or in company with L. bovista, in any of its forms, that it may be eaten with safety, and has a taste much like that of our common mushroom.

CCCCXCII.

RETICULA'RIA hydnoi'des.

C.

This very delicate parafitical mushroom, in substance like a cobweb, would have been passed by unnoticed by me, had not Mr. Stackhouse mentioned his having found it on the leaves of *Veronica Chamadrys*, or wild germander, and on which I have observed it frequently.

RETICULA'RIA

CCCCXCIII.

RETICUL Δ'RIA fégetum, fmut, or dust brand. 'Sowerby, vol. 2. 139, 140? C.

This fubstance, so generally known by the name of smut, and which is to be found on several kinds and species of grain and grass, is now ascertained to be a minute and parasitical mushroom, several species of which are supposed to occasion the several species of blights. The French call it Ergot.

In the fifth vol. of Linn. Transact. p. 112. are to be found many interesting particulars on this subject, by the Rev. W. Kirby, F. L. S. and amongst the rest the following.

This gentleman has noticed a few species of this very minute parasite. The first is our Reticularia segetum, or smut, and which in England is called dust brand, smut, or burnt corn, a species common to wheat, oats, barley, and rye, is scentless, and consumes not only the farinaceous part of the grain, but even the chass—barley and oats are more commonly attacked by it than wheat, on account of the latter being used dressed for sowing.

The next species is called pepper brand, brand, or bladders; this species consumes only the farinaceous part of the grain, which assumes a deep and dingy hue, and, being crumbled, emits

emits a very fetid scent, like putrid sish, which distinguishes it from the former; it is considered as very prejudicial to the farmer.

The next species, Mr. Kirby notices, is that known to agriculturists by the name of red gum (ÆCIDIUM), which throws forth a powder of a bright orange colour—this minute mushroom does not appear to be materially injurious to the grain, if at all.

Another, he observes, which is very common on wheat, the *Uredo frumenti*, *Sowerby* 140, grows on the ears, straw, and chaff, bursting in longitudinal streaks from under the epidermis or skin; this is represented as the *blight* of the wheat, and which in certain soils and seafons is so very injurious to that grain.

The next Mr. Kirby notices is one, which the wheat, in certain parts of England in the year 1797, fuffered very confiderably by, which the farmers call blight or mildew, and by far the worst enemy to the wheat—the ears injured by it were distinguished at a considerable distance by their blackness, and on closer examination they appeared as if soot, or some smutty powder, had been thrown upon them; the chaff appeared covered with small black dots, very different in appearance from the uredo frumenti on the same part; he observes, that wheat seized with mildew is only sit food for swine or poultry; and that, on examining a mildewed

a mildewed ear with a lens, the appearances did not so fully convince him of its being a fungus, as the other species did; however, he seems inclined to believe it is one, because some foreigner, who had expressly written on the subject, afferts, that the mildew is a very minute lycoperdon, or puff ball.

Upon the whole then it would appear, that the blight or mildew is the most destructive species of Reticularia, Uredo, Æcidium, Lycoperdon, or call it what we may; and Mr. Kirby very justly laments, that some method has not yet been found out to prevent the blight, as effectually as that, which has long been in use amongst farmers, to secure their crops from the brand, (Reticularia segetum.)

It is necessary to observe, that the very ingenious essay, in the 6th vol. Linn. Trans. p. 75. "Observations on Aphides, or blighting insects, as being the principal cause of blights in plants," has nothing whatsoever to do with the present subject; indeed the essay alluded to has not even hinted at the judicious remarks, made by Mr. Kirby, in the 5th vol. of the same transactions, published in 1800.

This very pains-taking gentleman observes, that the farmers in England use many preparations for dressing their seed, in order to prevent the evil of the pepper brand; such as a lixivium of wood ashes and urine; salt and water

only, or falt water if at hand; lees from the foap boilers; urine and cheese whey; and he believes that all the farmers dry their seed with fresh slacked lime. This custom, which is universal in the east of England, Mr. Kirby observes, would seem to prove, that the disease originates from the adhesion of the seed or dust of the brand to the seed of the wheat; and though he is convinced, from every information he has received, that some of the grain, nay a considerable quantity, does perish by the use of lime, yet he very pointedly asks, is the evil incurred greater than the evil prevented?

To prove that the practice of dreffing the feed, previous to fowing, is a very effectual preventative against the brand, Mr. Kirby details fome experiments made with that view, fuch as washing the wheat carefully with spring water, and afterwards wiping it with a foft dry cloth; dipping it in strong white wine vinegar, and afterwards allowed to dry; covering the grain with falt water, and after letting it remain in it for twelve hours, it was wiped as before; the refult was, that the wheat thus managed fuffered very little injury from the brand; the wheat, which was fimply washed with water, produced the greatest number of plants, and that wetted with vinegar the smallest number; but it does not appear that any lime was used in the experiment, though

Mr. Kirby apprehends, that lime is the most efficacious preventative against the evil, although, as before observed, the most destructive of the feed; that fresh slacked lime is more effectual than air flacked lime, is proved by a considerable loss, which a farmer suffered (£300) by using the latter with falt water. in the dreffing of his wheat at a particular period, and for reasons unnecessary here to relate, though it was always his custom before to dress his feed with fresh slacked lime and falt water, and the event was successful. It is well worthy of attention, that old wheat, used for feed, is not subject to the brand. As simply washing the seed with water, if it be carefully wiped afterwards, answers the end of steeping it in more expensive preparations, though attended with some difficulty on a large scale; and as it feems all that is necessary for guarding against the evil, is to have the seed thoroughly cleaned previous to fowing; Mr. Kirby recommends wetting the feed with water, and afterwards drying it with fresh slacked lime.

As a further proof, Mr. Kirby informs us, that a medical gentleman, who nas now taken to farming, affured him, that fince he has dreffed his wheat, he has never suffered by the pepper brand; and so convinced is he of the utility of the common method, that he is determined

termined to prepare barley and oats in the fame way, in order to prevent the dust brand."

In the Annals of Agriculture, Bath Papers, and many other periodical publications, on agriculture, a variety of methods are recommended against the smut: I shall notice one by a Mr. Gordon, in the Bath papers for the year 1799, vol. 9th, as perhaps it is not generally known; this gentleman recommends vitriolic acid, and, from the result of some experiments which he made, he is induced to think that the disease is communicated by infection: that the vitriolic acid destroys the infection; that the quantity of this acid sufficient is one to thirty of water; that a much greater quantity of the acid may be used with safety; that the feed should not be suffered to dry after it is taken out of the steep; that the seed may remain in the steep some time without danger; he has suffered it to remain in the steep for twenty hours, for reasons unnecessary here to mention. The quantity of acid used is by measure, as one gallon of the acid to thirty gallons of water; and he directs, that the feed should not be put into the steep, until the great heat, occasioned by the mixing of the acid with the water, is entirely gone off."

I have somewhat strayed, I fear, beyond the limits allowed me in the present publication, which must be excused, as I consider the sub-

ject highly interesting, and of great national import. I have, therefore, in a very brief point of view indeed, collected such information, as I conceived worthy of being communicated, on so very great an evil as the smut; at the same time, I by no means hold myself responsible for any opinion or advice given on a subject of so very great consequence.



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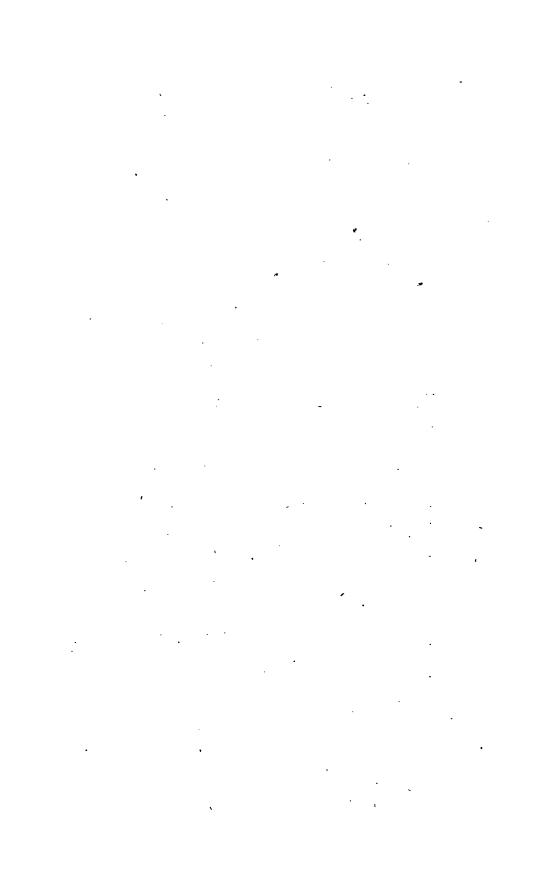
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